

LOG BOOK
OF THE
U. S. Steamer Essex
Third Rate,
of Six Guns,

Essex
April 1 to
Sept 30 - 1877.

COMMANDED BY
Commander Winfield Scott Schley , U. S. Navy,
Attached to Squadron,
Commencing April 1st, 1877,
at ,
and ending , 18 ,
at

BUREAU OF NAVIGATION,
NAVY DEPARTMENT,
1875.



Transcribed by Christopher Olson and Ann Merriman
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Ann Merriman, Christopher Olson, Maritime Heritage Minnesota

LIST OF OFFICERS

Attached to and on board of the U. S. Str. Essex, 3^d Rate, commanded by
Winfield Scott Schley , U. S. N., at the time of leaving the anchorage,
at Hampton Roads Va, the 16th day of August, 1877.

NAME	RANK
Winfield Scott Schley	Commander
John Schouler	Lieutenant Commander
Asa Walker	Lieutenant
James K. Cogswell	Lieutenant
Clinton K. Curtis	Lieutenant
Samuel C. Lemly	Ensign
Charles B. T. Moore	Ensign
William H. Allen	Midshipman
Richard Henderson	Midshipman
W. G. Hannum	Midshipman
Thomas D. Griffin	Midshipman
P. A. Rearick	Chief Engineer
H. T. Stancliffe	P.A. Paymaster
George B. Ransom	Asst Engineer
A. M. Moore	P.A. Surgeon
C. L. Dunnett	Asst Engineer
Francis A. Dran	Boatswain
W.W. Richardson	Carpenter
Arthur Schley	Captains Clerk
J. C. Petty	Paymaster Clerk

LIST OF OFFICERS

Who have died, been detached, or transferred, on board the U. S. Str Essex, 3^d Rate
 commanded by W. Scott Schley, Commander , U. S. N., during a cruise on the North Atlantic
 Station from 1877. to

NAME.	RANK.	TIME OF OCCURRENCE AND PARTICULARS.
Richard G. Davenport	Lieutenant	Detached, July 7 th , 1877., By order of Navy Dept.
Wainwright Kellogg	Lieutenant	" " 9 th , " " " " " "
C. G. Calkins	Master	" July 28 th , " " " " " "
Arthur Schley	Captains Clerk	Sent home, Sept, 29 th , 1877., Condemned by Medical Survey

Examined and found to be correct

Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificioe, Mexico

		WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.		Forms of Clouds, by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.	
Hour.	Knots.	Fathoms.	Cours es steere d.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.							
A.M.																		
1				S	1-2		29.86	78	77	76		bc	None	10				
2				S by W	"		"	"	"	"		"	Cum	9				
3				Calm	0		"	"	"	"		"	Cir	"				
4				S	0-1		29.85	76	76	75		"	"	"				
5				S by W	"		29.86	"	"	"		"	Cir Cum	"				
6				SW	"		29.86	"	78	77		"	"	"				
7				SSE	1		29.88	"	79	"		"	"	"				
8				S by E	1-2		"	77	"	"		"	"	"				
9				"	2		"	"	"	"		"	"	"				
10				SE	"		"	78	80	78		"	"	6				
11				NE by E	"		29.87	79	81	79		"	"	8				
Noon				NE	"		"	"	"	80		"	"	4				
Distance run by Log since preceding Noon												knots		fathoms.				
Latitude by D. R. at Noon												o		i		"		
Longitude by D. R. at Noon												o		i		"		
Latitude by Observations at Noon ☉												o		i		"		
Longitude by Chronometer from Forenoon Observations ☉												o		i		"		
Current during the time												knots		fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise												o		"		"		
Variation of the Compass by Azimuth ☉ observed at												o		"		"		
Water expended during the preceding 24 hours														252 gallons.				
Water												during the preceding 24 hours				"		
Water remaining on hand fit for me at Noon														1511		"		
Coal consumed during the preceding 24 hours														tons		275 lbs.		
Coal remaining on hand at Noon												103		"		1583 "		
P.M.																		
1				N by E	2-3		29.86	80	81	79		bc	Cir Cum	4				
2				"	"		29.83	"	82	80		"	"	5				
3				"	"		29.94	"	"	"		"	"	4				
4				"	"		"	"	"	"		"	"	2				
5				N	2		"	79	80	79		"	"	1				
6				"	3		29.86	"	"	"		"	"	0				
7				"	4		29.90	"	"	"		oc	"	4				
8				"	3		29.92	"	79	78		b	none	10				
9				"	4		29.96	"	"	"		bcg	Cum	8				
10				"	5		29.98	"	"	"		"	Cum Nimb	2				
11				"	5-6		"	"	"	"		"	"	7				
Mid.				"	"		29.99	"	"	"		"	"	"				
Longitude by Chronometer from Afternoon Observations ☉												o		i		"		
Longitude by Chronometer Observations												*		o		i "		
Variation of the Compass by Amplitude												observed at Sunset		o		i "		
Variation of the Compass by												at		o		i "		

under the command of Commander Winfield Scott Schley
Sunday April 1st, 1877.

, U. S. Navy.

[Editor's Note: The following was attached to the log entry for April 1st, 1877.]

The following first class boys were rated ordinary seamen second class, on the first day of April 1877., by order of Commanding Officer, Viz.

Wm. G. Smith	Charlie Delmar	Samuel Gillespie
Michael Mangau	Wm. H. Danforth	John Williams
Wm. J. Lindon	Wm. E. Haggeubotham	Patrick Mourley
Geo M. Humauce	Wallace Vanderbeck	Samuel Griffin
Patrick Duffy	Fredk. Wolfinger	Wm. S. Hasson
Wm. D. Jenkins	W.W. Sheldon	F.W.L. Gray
Patrick Reuch	Henry H. Hill	Wm. M. McCaun
John. C. Gable	D.W. Hellens	Bailey Leamey
Francis Shiscoll	William White	Robert Landon
John F. Partlow	John C. Sills	Peter A. Emmond

under the command of Commander Winfield Scott Schley
Sunday April 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light airs from S. and W. Bright moonlight.
Temp of bunkers 78°.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Warm and pleasant. Light airs from S. And W. Received fresh provisions for crew. At 8, sent up topgallant yards. Temp of bunkers 80°.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light airs from S. and E. first two hours, calling to N. and E. last two hours. At 9.45, commanding officer inspected ship and crew at quarters. Afterwards articles of war were read and crew mustered. Divine Service was read by Commanding Officer. Charlie Green (G.M.) was presented with a good conduct badge by Commanding Officer, it having been forwarded to him by Bureau of Equipment and Recruiting. By order of Commanding Officer, confined John L. King (B. M.) without irons to await trial by Court Martial for being drunk on duty. Temp of bunkers 78°.

(Signed) Sam C. Lemly
Ensign.

From Merid. to 4 P.M. Pleasant weather. Moderate breeze from N. and E. Made George N. Fisher (1.C.B.) a prisoner at large for fighting, to await investigation. Temp of bunkers 79°.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy first half, clear and pleasant last two hours. At sundown topgallant yards and housed topgallant masts. Rigged in launch and 1st cutter. Temp of bunkers 80°.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Wind from the N., increasing to a strong breeze. Squally. Moon rose at 9.45. Barometer rising. Veered to 60 fathoms on starboard chain and 40 fathoms on port chain.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

Hour.	Knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at f'd.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1				N	4-5		30.00	78	79	78		bc	none	10	
2				"	"		29.98	"	"	77		"	"	"	
3				"	"		"	"	78	"		"	Cum	9	
4				"	"		"	"	"	"		"	"	3	
5				"	3-5		"	"	"	"		"	Cum Nimb	4	
6				"	"		30.02	"	79	78		"	"	3	
7				"	"		"	"	"	"		"	Cir Cum	"	
8				"	"		30.05	"	"	"		"	"	5	
9				"	3-4		30.06	"	81	"		"	"	6	
10				"	3		"	80	82	79		"	"	"	
11				"	2-3		"	"	81	"		"	"	4	
Noon				"	2		30.05	"	"	"		"	"	4	
Distance run by Log since preceding Noon															
											knots	fathoms.			
Latitude by D. R. at Noon											°	'	"		
Longitude by D. R. at Noon											°	'	"		
Latitude by Observations at Noon ☉											°	'	"		
Longitude by Chronometer from Forenoon Observations ☉											°	'	"		
Current during the time											knots	fms. per hour, setting to the			
Variation of the Compass by Amplitude ☉ observed at Sunrise											°	"	"		
Variation of the Compass by Azimuth ☉ observed at											°	"	"		
Water expended during the preceding 24 hours											252 gallons.				
Water											during the preceding 24 hours				
Water remaining on hand fit for me at Noon											1259 "				
Coal consumed during the preceding 24 hours											tons	275	lbs.		
Coal remaining on hand at Noon											103	"	1305	"	
P.M.															
1				N	2		30.05	80	82	79		bc	Cir Cum	5	
2				"	"		30.01	"	"	"		"	"	"	
3				"	"		29.99	"	"	"		"	"	6	
4				"	"		29.98	"	"	"		"	"	5	
5				NNE	1-2		29.97	"	"	80		"	"	4	
6				"	"		"	"	"	79		"	"	5	
7				"	1		29.98	79	"	78		"	"	"	
8				"	"		30.01	78	79	"		"	"	4	
9				N by E	2		30.00	"	"	"		"	"	8	
10				"	"		30.02	"	"	"		"	"	"	
11				N	"		"	"	"	"		"	"	"	
Mid.				"	"		"	"	"	"		"	"	"	
Longitude by Chronometer from Afternoon Observations ☉											°	'	"		
Longitude by Chronometer Observations											°	'	"		
Variation of the Compass by Amplitude											°	"	"		
Variation of the Compass by											°	"	"		

under the command of Commander Winfield Scott Schley
Monday, April 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Strong wind from N. Squally. Slacked stern line and veered to 50 fathoms on port chain. Counter braced the yards. Bright moonlight. Temp of bunkers 82°

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Pleasant. Moderate N[orther]ly breeze. Cir. Cum. Nimb. clouds. At 8, fiddled topgallant masts. Temp of bunkers 78°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather damp and sultry. Light breeze from the N. At 9.15, exercised at General Quarters. Times in casting loose as follows. 1st Div. 4 m[inutes] 4 s[econds]. 2nd Div. 2 m 00s. Powder Div 2 m 30 s. Engineer Div. 1 m 15 sec. Navigators Div. 2 m 00 s. Surgeon's Div. 3 m 10 s. Marines 1 m 23 s. Ed. P. Burke (W.O.S.) having been absent from the ship ten days without permission was declared a deserter. Barometer study. At Meridian a shore battery fired a salute of 21 guns.

(Signed) J.K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light N breeze. At 115, over in to 30 fathoms on both bower chains. Hauled in 25 fathoms stern post. Held auction of E. P. Burke's (W.O.S), deserter, clothing. Sold for \$3.30. Temp of bunkers 80°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy, pleasant. Light breeze from N. and E. At 6 mustered at quarters and served out clean hammocks. At sunset sent down topgallant masts. Gave W. G. Switte (I.C.B.) 1 1/2 hours extra duty by order of Commanding Officer.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Pleasant. Light N. by E breeze. Cir Cum clouds Passing to S. W. Wm. G. Switte (I.C.B.) Stood one half hour extra watch and Ellison Parker (Lds) stood two hours extra watch by order of Commanding Officer. Moon rose at 11, obscured moonlight. Temp of bunkers 82°.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

		WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
Hour.	Knots.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.						
Fathoms.																
A.M.																
1			N	1-2		30.02	78	78	78		bc	Cir Cum	2			
2			"	"		"	"	"	"		"	"	"			
3			calm	0		30.00	77	"	"		"	"	1			
4			"	"		"	"	79	"		"	"	"			
5			"	"		"	78	"	"		"	"	"			
6			"	"		"	"	"	"		"	"	2			
7			E	1		"	79	80	79		"	"	3			
8			"	"		"	"	81	"		"	"	4			
9			"	"		30.01	80	82	"		"	Cir Str	7			
10			"	2		30.00	"	"	"		"	"	6			
11			"	"		"	"	"	"		"	"	7			
Noon			"	"		29.99	"	81	"		"	"	6			
Distance run by Log since preceding Noon											knots	fathoms.				
Latitude by D. R. at Noon											°	'	"			
Longitude by D. R. at Noon											°	'	"			
Latitude by Observations at Noon ☉											°	'	"			
Longitude by Chronometer from Forenoon Observations ☉											°	'	"			
Current during the time											knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise											°	"	"			
Variation of the Compass by Azimuth ☉ observed at											°	"	"			
Water expended during the preceding 24 hours											255 gallons.					
Water during the preceding 24 hours											"					
Water remaining on hand fit for me at Noon											1004			"		
Coal consumed during the preceding 24 hours											tons	275	lbs.			
Coal remaining on hand at Noon											103	"	1030	"		
P.M.																
1			E	2		29.95	80	81	79		bc	Cir Cum	5			
2			"	"		29.92	"	82	80		"	"	4			
3			"	3		29.90	"	"	"		"	"	5			
4			"	"		29.86	"	"	"		"	"	3			
5			"	"		29.85	"	"	"		bcm	Cir Str	4			
6			"	2		"	"	81	"		"	"	"			
7			"	"		29.86	"	"	79		"	"	6			
8			"	"		29.92	"	"	"		"	"	8			
9			"	"		29.94	"	"	"		bc	Cir Cum	"			
10			E by N	"		"	"	"	"		"	Cum	9			
11			calm	0		"	"	80	"		"	"	"			
Mid.			"	"		"	"	81	"		"	"	"			
Longitude by Chronometer from Afternoon Observations ☉											°	'	"			
Longitude by Chronometer Observations											*	°	'	"		
Variation of the Compass by Amplitude											observed at Sunset			°	'	"
Variation of the Compass by											at			°	'	"

under the command of Commander Winfield Scott Schley
Tuesday, April 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather overcast but pleasant during entire watch. Light airs from N during the first part, after words calm. Barometer falling slowly. Temp of bunkers 78°.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Calm. Barometer steady. At 8, sent up top gallant masts, crossed topgallant yards and loosed sale. Temp of bunkers 78°.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Cir. Str. clouds. Light E[asterly] airs. At 9.30, inspected at quarters. Battalion drill and dress parade. Exercise apprentice boys at signals. Temp of bunkers 80°.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. At 1.15 furled sail. Temp of bunkers 82°.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Cloudy. Warm. Damp. Light E[asterly] breeze. Cir Str clouds. At sunset sent down top gallant masts and yards. At 5.45, mustered at quarters and turned in clean hammocks. Temp of bunkers 80°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Calm. Temp of bunkers 78°.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

Hour.	Knots Fathoms.	Cours es steere d.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. atf'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			ESE	1		29.91	79	80	79		bc	Cir Cum	4	
2			SE	"		29.90	"	"	"		"	"	3	
3			SSE	"		29.89	"	"	"		"	"	2	
4			S	"		29.88	78	79	78		oc	"	0	
5			"	2		"	"	"	"		bc	"	2	
6			"	"		"	"	"	"		"	"	3	
7			S by variable	0- 1		"	"	"	"		"	"	4	
8			N	1		29.90	79	80	79		"	"	6	
9			NE by N	1- 2		29.92	80	"	"		"	"	5	
10			"	"		"	"	82	80		"	"	4	
11			"	"		29.95	"	83	81		"	"	6	
Noon			NNE	"		29.92	81	"	"		"	"	4	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		270 gallons.
Water condensed during the preceding 24 hours		100 "
Water remaining on hand fit for me at Noon		834 "
Coal consumed during the preceding 24 hours	1 tons	675 lbs.
Coal remaining on hand at Noon	102 "	355 "

P.M.														
1			NNE	2		29.89	82	83	82		bc	Cir Cum	6	
2			"	"		29.86	"	82	81		"	"	7	
3			"	"		29.88	"	"	"		"	"	9	
4			"	1-2		29.70	"	83	"		"	Cir Str	"	
5			NE	2		29.80	"	82	80		"	Cir Cum	4	
6			ENE	"		29.82	80	"	"		"	Cir Str	5	
7			"	1-2		29.80	"	81	"		"	"	8	
8			"	"		29.85	"	"	"		"	"	"	
9			Calm	0		29.87	"	"	"		"	"	7	
10			"	"		"	"	"	"		"	"	9	
11			"	"		29.88	"	"	"		"	"	"	
Mid.			"	"		"	"	"	"		"	Cum	8	

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Wednesday, April 4th, 1877.

, U. S. Navy.

[Editor's note: The following was attached to the log entry for April 4th, 1877.]

Expenditure at target practice in Ordnance Department

Powder	cannon in 15 lbs bags							75 lbs.
"	"	"	10	"	"			160 "
"	"	"	6	"	"			30 "
Cartridge	bags							5
"	"							16
"	"							5
Primer	quill							50
Shells	XI in boxes loaded and fused	5"						5
"	IX " " " " "	5"						16
"	60 lbs " " " "	5"						5

(Signed) Asa Walker, Lieut.

under the command of Commander Winfield Scott Schley
Wednesday, April 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first hour, cloudy remainder of watch. Pleasant. Light airs from E. S. E. shifting to S. Cir Cum clouds. Obscured moonlight. Temp of bunkers 80°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy but clearing. Light variable airs. Foggy last hour. At six, started fires in boiler No. 1 and 3 for purpose of distilling. Temp of bunkers 82°.

(Signed) Sam. C. Lemly
Lieut.

From 8 to Merid. Clear and pleasant, with light breeze from N and E. At 9.30, mustered at quarters. 1st and 2nd Divisions were instructed in nomenclature of the guns. John L. King (B. M.) was released from confinement by order of Commanding Officer and restored to duty. Steam in two boilers. Commenced distilling at 10. Average pressure 30 lbs. Temp o of bunkers 95°.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. N. E. Exercised firing at target with great guns. Steam in two boilers. Average pressure 30 lbs. Temp of bunkers 95°. Barometer falling. Distiller in operation.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N. N. E. At sundown sent down top gallant masts and yards. Steam in two boilers. Temp of bunkers 95°. Distilling.

(Signed) Wainwright Kellogg
Lieut

From 8 to Midnight. Clear and pleasant. Calm. Fire in two boilers. Distilling. Average steam pressure 30 lbs. Temp of bunkers 88°.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

Hour.	Knots.	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1				NNE	0-1		29.89	80	81	71		bc	Cir Cum	8	
2				"	1		29.88	"	"	"		"	"	9	
3				"	2		29.86	79	80	78		"	"	0	
4				"	"		"	"	"	"		"	"	8	
5				"	1-2		"	"	"	"		"	"	"	
6				"	1		29.88	80	81	81		"	"	9	
7				calm	0		29.90	"	"	"		"	"	"	
8				"	"		"	81	"	"		"	"	"	
9				NNE	0-1		29.91	82	83	82		"	"	7	
10				"	1		"	"	"	"		"	"	2	
11				E	"		29.84	"	"	"		"	"	4	
Noon				"	2		29.84	"	"	"		"	"	"	

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	o		'	"
Longitude by D. R. at Noon	o		'	"
Latitude by Observations at Noon ☉	o		'	"
Longitude by Chronometer from Forenoon Observations ☉	o		'	"
Current during the time		knots		fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	o		"	"
Variation of the Compass by Azimuth ☉ observed at	o		"	"
Water expended during the preceding 24 hours				244 gallons.
Water condensed during the preceding 24 hours				730 "
Water remaining on hand fit for me at Noon				1325 "
Coal consumed during the preceding 24 hours	1	tons	565	lbs.
Coal remaining on hand at Noon	100	"	2050	"

P.M.															
1		ENE	2	29.80	82	84	81		bc		Cir Cum			5	
2		"	3	29.78	"	85	82		"		"			4	
3		"	4	29.76	"	84	81		"		"			5	
4		"	2-3	29.77	"	"	"		"		"			6	
5		"	3	29.78	"	83	82		"		"			1	
6		NE by E	2	29.84	"	82	80		"		"			4	
7		"	0-1	29.85	"	"	"		"		"			2	
8		"	"	29.85	81	81	"		"		"			1	
9		"	"	29.88	"	82	"		"		"			3	
10		"	"	29.87	"	"	"		"		"			7	
11		N by W	"	29.90	"	81	"		"		Cir Nimb			5	
Mid.		"	"	29.87	"	"	"		"		"			6	

Longitude by Chronometer from Afternoon Observations ☉	o		'	"
Longitude by Chronometer Observations *	o		'	"
Variation of the Compass by Amplitude observed at Sunset	o		'	"
Variation of the Compass by at	o		'	"

under the command of Commander Winfield Scott Schley , U. S. Navy.
Thursday April 5th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light airs from N. N. E. Fires banked in two boilers. Average steam pressure 30 lbs. Temp of bunkers 80°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Weather warm and misty. Calm. Light airs from N. E. latter part of watch. At 8, sent up top gallant masts and light yards.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Clear warm and pleasant. Light airs from N. and E. At 9.30, inspected at quarters. Exercised 1st and 2nd Divisions at single sticks, Marine Guard at small arms. Cleaned bilges. Gunners gang engaged in saboting and strapping shells. John Tunny (Lds) confined in double irons, by order of Commanding Officer, for neglect of duty and being insolent to the Officer of the Deck. By order of Commanding Officer, George N. Fisher (1.C.B.) Was released from prison are at large. Steam in two boilers. Average pressure 30 lbs. Temp of bunkers 88°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Moderate breeze from N. and E. Steam pressure 30 lbs. Temp of bunkers 88°. Barometer falling slowly.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Light airs from N.N.E. At sundown sent down top gallant masts and light yards. Steam two boilers. Steam pressure 30 lbs. Temp of bunkers 88°. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from N. and E. shifting to N. and W. Average steam 26°. Temp of bunkers 90°. Distilling in operation.

(Signed) J. K. Cogswell
Lieut

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

		WINDS.		BAROMETER.		TEMPERATURE.									
Hour.	Knots.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at f'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
A.M.															
1			N by W	0-1		29.88	79	80	79		bc	Cum	1		
2			calm	0		29.87	"	"	"		"	"	4		
3			"	"		29.86	81	81	80		"	"	9		
4			"	"		"	79	"	79		"	"	"		
5			"	"		"	"	"	80		bcm	"	1		
6			"	"		"	"	"	81		"	"	"		
7			"	"		"	80	"	"		om	"	0		
8			"	"		"	81	"	82		"	"	"		
9			ENE	1-2		"	82	83	81		bc	"	2		
10			E by N	1		"	"	84	82		"	"	"		
11			"	1-2		29.84	"	"	"		"	Cir Cum	4		
Noon			E	2		29.80	"	"	"		"	"	6		
Distance run by Log since preceding Noon															
										knots	fathoms.				
Latitude by D. R. at Noon										°	'	"			
Longitude by D. R. at Noon										°	'	"			
Latitude by Observations at Noon ☉										°	'	"			
Longitude by Chronometer from Forenoon Observations ☉										°	'	"			
Current during the time										knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise										°	"	"			
Variation of the Compass by Azimuth ☉ observed at										°	"	"			
Water expended during the preceding 24 hours													244	gallons.	
Water condensed during the preceding 24 hours													730	"	
Water remaining on hand fit for me at Noon													1809	"	
Coal consumed during the preceding 24 hours										1	tons	895	lbs.		
Coal remaining on hand at Noon										99	"	1130	"		
P.M.															
1			E by N	2		29.79	83	85	83		bc	Cir Cum	7		
2			ENE	"		29.77	84	86	84		"	"	6		
3			"	"		29.75	83	85	83		"	"	5		
4			"	"		29.74	"	"	"		"	"	"		
5			E by S	"		29.68	"	84	82		"	"	"		
6			"	1-2		29.70	"	"	"		"	"	6		
7			"	"		29.71	"	83	"		"	"	8		
8			SSE	0-1		29.72	82	"	"		"	"	"		
9			"	2		29.73	83	"	"		"	"	9		
10			"	3		"	82	"	"		"	"	8		
11			"	"		29.74	"	"	"		"	"	"		
Mid.			S	"		"	"	"	"		"	"	"		
Longitude by Chronometer from Afternoon Observations ☉										°	'	"			
Longitude by Chronometer Observations *										°	'	"			
Variation of the Compass by Amplitude observed at Sunset										°	"	"			
Variation of the Compass by at										°	"	"			

under the command of Commander Winfield Scott Schley
Friday, April 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from N. and W. first hour, calm rest of watch. Bright moonlight. Steam in two boilers. Average pressure 30 lbs. Temp of bunkers 88°. Distilling. John P. Marker (1.C.B.) stood four hours extra duty by order of Commanding Officer.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Warm. Misty. Calm. Cum. clouds. At 8, Sent up top gallant masts and crossed topgallant yards. Steam two boilers. Average steam pressure 30 lbs. Temp of bunkers 88°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Warm weather. Clear after first hour. Gentle breeze from the E. Inspected at quarters at 9.30. Drilled at fire quarters, and first and second Divisions at pistols. Placed Thomas Madden (1.C.B.) in solitary confinement on bread and water, by order of Commanding Officer, for being disrespectful to the Officer of the Deck. Steam pressure 30 lbs. Temp of bunkers 98°.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light E.N.E. breeze. Cir Cum clouds. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 94°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Warm, hazy about horizon. Light E[aster]ly breeze. Barometer unsteady, falling during first hour and rising after 5.30. Send down light yards at sunset.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Clear. Heavy dew. Light S. S. E. breeze. Cir Cum clouds. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 90°. Distilling.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

Hour.	Knots.	Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.		Force.	Height in inches.	Ther. at f. d.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1				SSW	0-1		29.74	82	82	81		bc	Cum	7	
2				"	"		29.72	81	"	"		"	"	"	
3				S by W	1		29.70	"	"	"		"	"	"	
4				"	2		"	"	"	"		bcm	"	5	
5				"	3		29.68	80	80	80		"	Cir Cum	"	
6				"	"		29.69	"	"	"		"	"	5	
7				S	4		"	"	"	"		bc	Cir	6	
8				"	"		"	82	"	"		"	"	8	
9				"	"		29.65	"	83	82		"	"	"	
10				"	3		29.63	83	84	"		"	"	"	
11			*	"	"		29.72	"	85	83		"	"	"	*
Need Mer, Bac, Air, Bar, not showing correct height.															
Noon															

* Need Mer, Bac, Air, Bar, not showing correct height.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	Knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		245 gallons.
Water condensed during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		2294 "
Coal consumed during the preceding 24 hours	1 tons	1335 lbs.
Coal remaining on hand at Noon	97 "	2040 "

P.M.													
1			SSE	2		29.73	86	88	85		bc	Cir Cum	8
2			SE	"		29.70	88	90	87		"	"	9
3			SE by E	"		29.67	"	"	"		"	"	7
4			SSE	3		29.64	"	89	86		"	"	6
5			E	"		29.61	87	88	"		"	"	"
6			"	2		29.63	84	86	84		"	"	7
7			"	"		29.64	83	"	82		"	"	8
8			"	"		29.67	"	85	"		"	"	"
9			SE	3		29.73	84	"	81		"	"	9
10			"	4		29.68	"	84	"		"	"	"
11			SE by S	3		"	"	82	79		"	"	"
Mid.			S by E	"		29.67	"	"	78		"	"	"

Longitude by Chronometer from Afternoon Observations ☉	0	"
Longitude by Chronometer Observations *	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley
Saturday, April 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant during first part, overcast and misty during last hour. Light airs from S. and W. Barometer falling. Average steam pressure 30 lbs. Temp of bunkers 90°. Distiller in operation.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Pleasant first part with slight mist, latter part clear. Moderate breeze from S. Barometer steady. Steam in two boilers. Pressure 30 lbs. Temp of bunkers 88°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Moderate S[outher]ly breeze. At 11, Commenced entering barometrical heights in log for mercurial barometer, aneroid barometer, not showing correct height. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 91°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant, with light breeze from S. and E. Barometer falling slowly. Thomas Madden (1.C.B.) released from confinement and restored to duty. Steam in two boilers. Pressure 30 lbs. Temp of bunkers 92°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Warm. Hazy. Moderate breeze from E. Cir Cum clouds. Banked fires in two boilers. Temp of bunkers 80°. Steam pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant, with moderate breeze from S. and E. Fires banked in two boilers. Pressure 30 lbs. Temp of bunkers 92°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Island of Sacrifios, Mexico

Hour.	Knots.	Fathoms.	Cours es steere d.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. att d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				S	2		29.63	78	81	79		bc	Cir Cum	9		
2				SSW	3		29.60	"	"	"	"	"	"	"		
3				"	"		29.61	77	79	78	"	"	"	"		
4				SW	"		29.62	"	"	"	"	"	"	"		
5				N	0-1		29.67	78	80	79	"	"	"	8		
6				"	1		29.73	79	82	80	"	"	"	"		
7				"	2-4		"	80	"	"	"	"	Cum	9		
8				NW	2		29.86	82	"	"	"	"	"	"		
9				NNW	"		"	"	83	81	"	"	Cir	"		
10				"	1-2		29.85	"	84	82	"	"	"	"		
11				NW	1		"	"	"	"	"	"	Cir Cum	"		
Noon				"	3		29.94	83	85	"	"	"	Cum	"		

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon ☉	0			"
Longitude by Chronometer from Forenoon Observations ☉	0			"
Current during the time	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ☉ observed at	0		"	"
Water expended during the preceding 24 hours				245 gallons.
Water condensed during the preceding 24 hours				730 "
Water remaining on hand fit for me at Noon				2779 "
Coal consumed during the preceding 24 hours	1	tons	1425	lbs.
Coal remaining on hand at Noon	96	"	615	"

P.M.									
1	NW	3	29.84	83	85	82	bc	Cum	9
2	"	"	29.85	84	"	"	"	"	"
3	N	"	29.84	"	86	83	"	"	"
4	NNE	"	29.82	85	87	"	"	"	"
5	N	2	29.81	"	"	84	"	"	"
6	"	3	29.82	84	85	82	"	Cir Str	8
7	"	2	29.85	85	83	80	"	Str	"
8	"	"	29.87	"	"	"	"	"	9
9	"	"	"	"	82	"	bcw	"	"
10	"	"	"	"	"	"	"	"	"
11	WSW	1	29.90	"	"	"	"	"	"
Mid.	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	4
Longitude by Chronometer Observations	*	0	4
Variation of the Compass by Amplitude		0	4
observed at Sunset			
Variation of the Compass by		0	4
at			

under the command of Commander Winfield Scott Schley
Sunday April 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear sky. Pleasant to come along with light S[outher]ly breeze. Cir. Cum. clouds. At 2.45, moon rose. Banked fires in two boilers. Temp of bunkers 92°. Average steam pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear, pleasant. Light wind from N. and W. At 8, crossed topgallant yards. Jeremiah O'Brien (1.C.F.) and Walter Carter (1.C.F.) ashore after their leave had expired. Steam in two boilers. Average pressure 35 lbs. Temp of bunkers 94°.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light airs from N. and W. At 10 Commanding Officer inspected ship and crew. Held Divine Service. John C. Kirk (O.S.2C.) Was confined in double irons, by order of Commanding Officer, for disobedience of orders. Fires banked in two boilers. Pressure 30 lbs. Temp of bunkers 90°

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear, warm. Moderate breeze from N.W. first two hours, afterwards from N. and E. Steam in two boilers. Average pressure 25 lbs. Temp of bunkers 94°. Distilling. Jeremiah O. Brien (1.C.F.) returned to the ship.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N. Fires banked in two boilers. Pressure 30 lbs. Temp of bunkers 94°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from N. first two hours, afterwards from W. S. W. Heavy dew. Steam in boilers. Average pressure 25 lbs. Temp of bunkers 96°. Distilling.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Island of Sacrificios, Mexico

Hour.	Knots.	WINDS.			BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1				Calm	0		29.88	82	89	79		bc	none	10	
2				WSW	0-1		29.84	"	"	"		"	"	"	
3				"	"		29.80	80	"	78		bcm	Cum	9	
4				"	2		29.82	"	79	76		bcf	"	8	
5				ESE	1-2		29.88	76	78	78		bc	"	7	
6				E	"		29.87	77	80	79		"	"	9	
7				"	"		29.85	78	81	"		"	"	"	
8				"	"		29.85	79	"	"		"	"	"	
9				"	2		"	"	"	"		"	Cir Cum	"	
10				"	"		"	"	"	"		"	"	"	
11				"	"		"	"	"	"		"	"	"	
Noon				"	"		"	"	"	"		"	"	"	

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ☉ observed at	0	11	11
Water expended during the preceding 24 hours			245 gallons
Water condensed during the preceding 24 hours			141 "
Water remaining on hand fit for me at Noon			2675 "
Coal consumed during the preceding 24 hours		tons	495 lbs.
Coal remaining on hand at Noon	96	"	120 "

P.M.									
1	E	2	29.82	79	82	80	bc	Cum	9
2	ENE	3	"	"	83	81	"	Cir Str	"
3	"	4	"	"	"	"	"	"	"
4	"	"	29.80	"	"	"	"	"	"
5	E by N	"	"	80	"	"	"	Cir Cum	7
6	"	"	29.78	"	"	80	"	"	"
7	"	3	29.77	"	"	"	"	"	8
8	ESE	4	"	"	82	"	"	"	9
9	"	"	29.75	82	"	"	"	Cir	"
10	"	"	29.75	"	"	"	"	"	"
11	SE	2	"	"	81	"	"	"	"
Mid.	calm	0	29.73	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	°	'	"
Longitude by Chronometer Observations	*	°	'	"
Variation of the Compass by Amplitude	observed at Sunset	°	'	"
Variation of the Compass by	at	°	'	"

under the command of Commander Winfield Scott Schley
Monday April 9, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light airs from W. S. W. Foggy during last hour of watch. Fires banked in two boilers. Steam pressure 25 lbs. Temp of bunkers 90°. Stopped distilling at 2.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Pleasant weather, hazy. Light variable breeze. Hauled fire under two forward boilers. At 8, loosed sail and crossed topgallant yards.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light airs from S. and E. At 9.30, exercised at General Quarters. Divisions cast loose as follows. Marine Guard 30 s. Engineers Div, 1 m 10 s. 1st Div, 1 m 30 s. 2nd Div, 2 m. Navigation Div, 2 m 2 s. Powder Div, 2 m 53 s. Surgeons Div, 2 m 53 s. Secured at 9.46, in 3m 8 s. By order of Commanding Officer, Midshipman Richard Henderson was placed under arrest to await action of Commander in Chief, for disgraceful and disorderly conduct on shore. By same order, John Tunny (Lds) was released from confinement and restored to duty. Temp of bunkers 88°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from the E freshening towards end of watch. Raised the stream anchor and shifted in further astern. Carpenter gang engaged in fitting rail stanchions on poop and painting inside of hatch coamings. Temp of bunkers 89°.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Moderate breeze from E first three hours of watch, hauling to S and E. at sundown sent down topgallant yards. Temp of bunkers 80°. By order of Commanding Officer, gave James Gillespie (O.L.2C.) And M. W. Moore (1.C.B.) each two hours extra duty for fighting.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Pleasant weather, calm. Fresh breeze first part of watch from S and E. Calm latter part.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

Hour.	Knots.	Fathoms.	Cours es steere d.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				calm	0		29.74	79	80	79		bcw	Cir Cum	8		
2				"	"		29.72	"	"	"		"	"	"		
3				S	1		29.70	"	"	"		"	"	"		
4				"	2		"	"	"	"		"	"	"		
5				calm	0		29.72	"	"	"		bcm	"	"		
6				"	"		29.74	"	81	"		"	"	7		
7				SW	1		29.76	"	"	80		"	"	6		
8				NW	2		"	"	82	82		"	"	"		
9				"	1		29.78	"	"	80		bc	"	7		
10				"	"		"	80	"	"		"	"	"		
11				NNW	1-2		29.79	"	84	82		"	"	9		
Noon				"	"		29.79	"	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon	°	' "
Longitude by Chronometer from Forenoon Observations	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	°	" "
Variation of the Compass by Azimuth	°	" "
Water expended during the preceding 24 hours		245 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2430 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	95	" 2085 "

P.M.																
1				NE	2		29.76	81	84	82		b	none	10		
2				"	3		"	"	"	"		"	"	"		
3				NNE	4		"	"	83	81		bm	"	"		
4				N	"		29.75	82	"	"		"	"	"		
5				"	3		29.77	"	"	"		b	"	"		
6				"	4		29.79	80	82	80		bc	Cum	9		
7				"	"		29.82	"	"	"		"	"	7		
8				"	"		29.84	"	"	"		"	"	"		
9				"	"		29.88	"	"	"		"	Cum Nimb	"		
10				"	"		29.91	"	"	"		"	"	5		
11				"	3		"	81	"	"		"	"	4		
Mid.				"	"		"	"	"	"		"	"	2		

Longitude by Chronometer from Afternoon Observations	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley , U. S. Navy.
Tuesday April 10th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm first half, light land breeze latter half of watch. Temp of bunkers 94°.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Cool. Pleasant. Light variable breeze. Cir. Cum. clouds. At 8, crossed topgallant yards. Temp of bunkers 94°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather clear and warm. Light breeze from N and W. Walter Carter (1.C.F.) returned on board, having been absent without leave forty eight hours. Inspected at quarters at 9.30. Released John C. Kirk (O.S.2.C.) from confinement. Sent a party ashore for sand. Carpenter gang engaged in fitting pier- rail on poop.

(Signed) J. Keppel F. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Moderate N breeze. Hazy. Temp of bunkers 85°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Pleasant weather. Fresh breeze from N. Barometer rising. At sunset sent down topgallant yards. Temp of bunkers 84°.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Heavy dew. Cum Nimb clouds. Moderate N[orther]ly breeze. Temp of bunkers 84°.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Island of Sacrificios, Mexico

RECORD OF THE SAIL THE VESSEL IS UNDER AT END OF WATCH.															
Hour.	Knots.	Course steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1			N	2		29.91	81	81	80		bc	Cum	7		
2			"	"		29.89	"	"	"		"	Cum Nimb	1		
3			"	1-2		29.80	"	"	82		oc	"	0		
4			"	1		29.86	"	"	"		"	"	"		
5			"	"		29.82	"	"	"		"	Cir Cum	"		
6			"	"		"	80	80	80		"	Cir Nimb	"		
7			"	"		"	"	"	"		"	"	"		
8			"	"		"	"	"	"		"	"	"		
9			NNE	"		29.81	81	82	"		bc	Cir Cum	1		
10			NE	"		29.80	"	"	81		"	"	4		
11			ENE	2		29.79					"	"	"		
Noon			"	3		29.78					"	"	2		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		249 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2181 "
Coal consumed during the preceding 24 hours	2 tons	305 lbs.
Coal remaining on hand at Noon	93 "	1780 "

P.M.															
1			ENE	2		29.76	84	86	84		bc	Cir Cum	4		
2			"	"		29.72	"	87	"		"	"	5		
3			E by N	3		29.68	"	86	83		"	"	4		
4			"	"		29.67	"	"	"		"	"	3		
5			"	"		"	83	"	"		"	Cum Nimb	1		
6			"	"		"	82	85	"		o	"	0		
7			E	"		"	"	"	"		"	"	"		
8			E by S	"		29.66	"	"	"		"	"	"		
9			ESE	"		29.71	"	84	82		bc	Cir Cum	3		
10			"	"		"	"	"	"		"	Cum Nimb	8		
11			S by E	2		29.68	"	83	81		"	Cum	9		
Mid.			S	3		29.66	"	82	80		"	none	10		

Longitude by Chronometer from Afternoon Observations ☉	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Wednesday April 11th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant during first hour, afterwards overcast and cloudy. Light airs from N. Barometer falling. Temp of bunkers 86°.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast, with light airs from N. Barometer steady. At 5.15, started fires under four main boilers. Hove up starboard anchor and hove in to 20 fathoms on port chain. Lifted stream anchor and hoisted it in board. At 8, crossed topgallant yards. Temp of bunkers 86°.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy. Warm. Light N.E[aster]ly breeze. Cir Cum clouds. At 9.15, steam reported ready. At 9.30, got underway. Steam in four boilers. At 10, came to with starboard anchor in 3 fathoms water off Vera Cruz. Moored with 15 fathoms on port chain, 20 fathoms on starboard and a catch from starboard quarter with 45 fathoms chain. S. W. end of Gallaga reef bore (pc) N.N.E. Bastion of Castle in line. Let steam died out in two boilers. Banked fires in two and Commenced distilling. Temp of bunkers 104°. Average steam pressure 60 lbs. Draught forward 13 feet 8 inches. Amidships 14 feet 6 inches. Aft 15 feet 8 inches. At 11.30 Pilot left the ship.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. Barometer falling. Distilling. Steam in two boilers. Temp of bunkers 100°.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Overcast. Warm. Light E[aster]ly breeze. Cum Nimb. Clouds. At sunset sent down top gallant yards. Banked fires in two boilers. Ever steam pressure 30 lbs. Temp of bunkers 100°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Light breeze from S and E. Fires banked in two boilers. Steam pressure 35 lbs. Temp of bunkers 100°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots.	Fathoms.	Cours es steere d.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				S			29.66	82	82	89		bc	Cum	7	
2				"	"		29.66	80	"	"		"	"	8	
3				"	"		29.63	78	81	79		"	"	"	
4				"	"		29.64	77	80	78		"	"	"	
5				"	"		"	78	79	77		"	"	7	
6				"	"		29.69	"	78	76		"	"	5	
7				"	"		29.70	77	"	"		"	"	2	
8				"	3		29.68	"	79	"		"	"	"	
9				"	"		"	79	83	79		"	Cir Cum	5	
10				"	"		29.69	80	84	81		"	"	"	
11				SE by S	"		"	82	86	"		"	"	4	
Noon				N	5-7		29.75	83	84	"		bcq	Cum Nimb	3	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	o	'	"	"
Longitude by D. R. at Noon	o	'	"	"
Latitude by Observations at Noon ☉	o	'	"	"
Longitude by Chronometer from Forenoon Observations ☉	o	'	"	"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	"	"	"
Variation of the Compass by Azimuth ☉ observed at	o	"	"	"
Water expended during the preceding 24 hours	245 gallons.			
Water condensed during the preceding 24 hours	600 "			
Water remaining on hand fit for me at Noon	2536 "			
Coal consumed during the preceding 24 hours	2	tons	2225	lbs.
Coal remaining on hand at Noon	90	"	1795	"

P.M.															
1				N	5-6		29.77	83	85	82		bcq	Cir Cum	4	
2				"	"		"	84	"	"		"	"	5	
3				"	6-8		29.75	83	84	81		"	"	8	
4				"	7-9		29.76	"	"	80		"	Cum	1	
5				"	"		29.75	"	82	79		"	Cum Nimb	2	
6				"	"		29.78	82	"	"		"	"	"	
7				"	"		29.82	80	80	76		"	"	1	
8				"	"		29.83	79	"	"		oq	"	0	
9				"	"		29.93	78	"	"		"	"	"	
10				"	"		29.97	"	"	"		bcq	"	2	
11				"	5-7		30.00	"	79	"		oq	"	o	
Mid.				"	"		30.01	"	"	"		bcq	"	3	

Longitude by Chronometer from Afternoon Observations ☉	o	'	"	"
Longitude by Chronometer Observations *	o	'	"	"
Variation of the Compass by Amplitude	o	'	"	"
Variation of the Compass by at	o	'	"	"

under the command of Commander Winfield Scott Schley
Thursday April 12th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light dew and land breeze. Starlight. Cum. clouds. Banked fires in two boilers. Steam pressure 25 lbs. Temp of bunkers 101°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light S[outher]ly breeze. Fires banked in two boilers. Average pressure 25 lbs. Temp of bunkers 98°. Lowered smoke pipe.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. First part of watch clear and pleasant, with moderate breeze from S. At 11.15, wind shifted to N and at 11.30, increased to fresh breeze. Veered to 30 fathoms on both chains and let go sheet anchor. Started fires in two main boilers. Barometer low, rising last hour. Blowing a fresh breeze from N. at end of watch. Temp of bunkers 98°.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate gale from N. Squally. At 3 sent down top gallant masts. Veered to 60 fathoms on each bower and 30 fathoms on sheet chain. Carried stern fast forward and took in slack. Secured the guns. Rigged in boats and passed gripe. Counter braced the yards. Hoisted smoke stack and got up steam in four boilers. American Mail Steamer "City of Havana" came in and anchored. Stopped distilling at 3.40. Average pressure 60 lbs. Temp of bunkers 102°.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Wind gradually increased from moderate to fresh gale from N. Barometer rising. Braced by yards by port braces. Shifted stream chain from stern to port bow. Steam in four boilers. Average pressure 55 lbs. Temp of bunkers 108°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Blowing a moderate gale from N. Moderate sea. Steam in four boilers. Average pressure 55 lbs. Temp of bunkers 105°. Distilling.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,

Hour.	Knots.	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.				
A.M.													
1			N	6-8		29.98	79	79	77	oq	Cum Nimb	0	m
2			"	"		29.96	78	"	76	"	"	"	"
3			"	5-7		"	"	"	"	"	"	"	"
4			"	4-6		29.94	"	"	"	"	"	"	"
5			"	4-5		29.99	"	"	"	"	"	"	"
6			"	"		30.04	"	"	"	bcq	"	1	"
7			"	"		"	77	"	"	"	Cir Cum Nimb	2	"
8			"	"		30.08	"	"	"	"	"	1	"
9			"	"		30.12	78	78	"	ocq	Cum Nimb	0	"
10			"	"		30.13	79	79	"	"	"	"	"
11			"	"		"	"	"	"	bc	Cir Cum	5	"
Noon			"	"		30.14	80	80	"	"	"	8	"

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ☉ observed at	0	11	11
Water expended during the preceding 24 hours			245 gallons.
Water condensed during the preceding 24 hours		300	11
Water remaining on hand fit for me at Noon			2591 11
Coal consumed during the preceding 24 hours	2	tons	1295 lbs.
Coal remaining on hand at Noon	88	11	500 11

P.M.										
1	N	4-5	30.09	77	79	76	bc	Cir Cum	4	S
2	"	"	"	"	"	"	"	"	2	"
3	"	3-4	30.07	"	"	"	oc	cium Nimb	0	"
4	"	"	30.06	"	"	"	"	"	"	"
5	"	"	30.12	78	79	75	"	"	"	"
6	"	3	30.09	77	77	"	"	"	"	"
7	"	"	30.07	"	"	74	"	"	"	"
8	"	"	30.11	78	"	"	"	"	"	"
9	"	"	"	"	"	"	"	"	"	"
10	"	2-3	30.12	75	"	75	"	"	"	"
11	"	"	"	"	"	"	"	"	"	"
Mid.	"	2	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	0	1	10
Longitude by Chronometer Observations	*	0	1	10
Variation of the Compass by Amplitude		0	1	10
observed at Sunset		0	1	10
Variation of the Compass by		0	1	10
at		0	1	10

under the command of Commander Winfield Scott Schley
Friday April 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Wind blowing a moderate gale from N. Wind gradually decreasing to a fresh breeze. Steam in four boilers. Pressure 56 lbs. Temp of bunkers 100°. Barometer falling slowly. Sea moderate.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Weather cloudy, pleasant. Fresh breeze from the N. Barometer rising. Banked fires in four boilers. Mail Steamer "City of Mexico" arrived from New Orleans. Moderate swell from the N. Ship rolling 9° and 15°. Steam for pressure 50 lbs. Temp of bunkers 98°.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Cloudy and pleasant. Strong wind from N. Squally. Liberty party returning on board. Hove in to 45 fathoms on each bower chain. Banked fires in four boilers. Average pressure 30 lbs. Temp of bunkers 8°. Ship rolling 9° to 12°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast. Moderate breeze from N. Long swell from N. Maximum roll of ship 15° to port. Scraped spars. Steam pressure 30 lbs. Temp of bunkers 106°.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast. Pleasant. Light breeze from N. Hove in to 30 fathoms on each bower chain and hove in slack of sheet chain. Carried stream chain asked and secured at 45 fathoms. Banked fires in four boilers. Steam pressure 30 lbs. Temp of bunkers 100°. Rolling heavily. Pedean Olsen (Sea) John Pettit (O.S.2.C.) and Patrick Mourley (1.C.B.) returned from liberty.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Overcast. Light breeze from N. Ship rolling about 4° to 15°. The port life buoy was carried away by the stern fast getting foul of the spindle. Temp of bunkers 100°. Steam pressure 30 lbs. Got kedge ready for letting go over stern.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

(signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Course steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in fms.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				NW by N	2		30.06	76	76	74		oc	Nimb	0	
2				NNW	3		"	75	"	"		bc	Cum Nimb	"	
3				"	"		30.02	"	"	"		"	"	"	
4				"	"		"	"	"	"		oc	Nimb	0	
5				"	"		30.10	"	"	"		"	"	"	
6				"	1-2		30.17	74	74	73		ocd	"	"	
7				"	"		"	"	"	"		oc	Cum Nimb	"	
8				NW by N	"		"	"	"	"		or	"	"	
9				NW	"		30.15	75	75	74		od	"	"	
10				"	"		"	"	"	"		oc	"	"	
11				"	"		"	74	"	73		"	"	"	
Noon				"	"		"	"	76	74		"	Cir Cum Nimb	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	o	'	"	
Longitude by D. R. at Noon	o	'	"	
Latitude by Observations at Noon ☉	o	'	"	
Longitude by Chronometer from Forenoon Observations ☉	o	'	"	
Current during the time knots fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	"	"	
Variation of the Compass by Azimuth ☉ observed at	o	"	"	
Water expended during the preceding 24 hours			246 gallons	
Water during the preceding 24 hours			"	
Water remaining on hand fit for me at Noon			2343	"
Coal consumed during the preceding 24 hours	2	tons	305	lbs.
Coal remaining on hand at Noon	86	"	195	"

P.M.									
1	NW	2	30.12	74	76	74	o	Cum Nimb	0
2	N	"	30.10	"	"	"	"	"	"
3	NE	"	30.08	"	77	76	"	"	"
4	ESE	"	30.05	"	"	76	"	"	"
5	E	"	30.06	"	"	75	oc	"	"
6	"	"	30.08	"	"	"	"	"	"
7	"	"	30.10	75	78	76	"	"	"
8	"	"	30.14	77	"	77	"	"	"
9	ESE	4	"	"	"	"	ofc	"	"
10	"	3	"	"	"	"	"	"	"
11	SSE	2	30.15	"	77	76	"	"	"
Mid.	"	"	30.16	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	+	⊙
Longitude by Chronometer Observations	*	⊙	+
Variation of the Compass by Amplitude	observed at Sunset	⊙	+
Variation of the Compass by	at	⊙	+

under the command of Commander Winfield Scott Schley
Saturday April 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy but pleasant, with light wind from N. N. W. Ship rolling from 15° to 8°. Long swell from N. Veered a couple of fathoms on sheet chain to ease strain. Fires banked in four boilers. Steam 30 lbs. Temp of bunkers 102°.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Drizzling. Thick. Moderate N[orther]ly breeze, Nimb clouds. At 7.30, hove up and catted and fished sheet anchor. Hove in 30 fathoms shackle to bitt on starboard chain. Banked fires in four orders. Average pressure 30 lbs. Temp of bunkers 102°. Moderate swell, ship rolling easily. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Overcast. Drizzling rain first part of watch. Light breeze from N. Raised stream anchor and shifted it astern. Sent liberty party ashore on twenty four hours liberty. Hove in port chain to 23 fathoms. Steam pressure 30 lbs. Temp of bunkers 98°.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Overcast. Cool. Pleasant. Light N. E. breeze. ~~At 4, hove up starboard anchor and shifted berth.~~ A man was brought from U.S. Mail Steamer "City of Mexico" for medical advice which was given. Cum Nimb. clouds. At 3.30, brought to and hove up port anchor and in to 15 fathoms on starboard chain. Spread the fire under four boilers. Average pressure 25 lbs. Temp of bunkers 106°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Overcast and pleasant. Light E. breeze. At 4, hove up starboard anchor and shifted berth. Let go both bowers, veered to 20 fathoms on starboard chain and 15 on port. S. W. end of Gallega bore N. E. by N. N. W. Bastion of Castle N. W. from new anchorage. Allowed fire to die out. Distilling. Steam pressure 40 lbs. Temp of bunkers 98°.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Overcast. Cool. Pleasant. Passing showers Cum. Nimb. clouds. Light S. E. breeze. Banked fires in four boilers. Steam pressure 35 lbs. Temp of bunkers 104°. Distilling.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Legacy.	Height in inches.	Ther. at f'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			WNW	0-1		30.18	75	76	75		oc	Cum Nimb	0	
2			"	"		30.16	"	77	"		bc	"	1	
3			"	1		30.14	74	"	"		"	"	2	
4			"	"		30.08	"	"	"		"	"	"	
5			SW by S	"		30.03	75	75	73		"	Cum Str	7	
6			"	"		30.05	"	"	"		"	"	"	
7			"	"		"	"	"	"		"	"	"	
8			"	"		"	"	"	"		"	"	5	
9			SW	2		"	"	78	75		"	Cum Nimb	3	
10			SSE	3		30.04	78	"	"		"	"	2	
11			"	"		30.05	79	79	76		"	"	1	
Noon			E by S	"		30.05	"	"	"		"	"	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ° ' "

Longitude by Chronometer from Forenoon Observations ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ° observed at Sunrise ° " "

Variation of the Compass by Azimuth ° observed at ° " "

Water expended during the preceding 24 hours 245 gallons.

Water condensed during the preceding 24 hours 600 "

Water remaining on hand fit for me at Noon 2700 "

Coal consumed during the preceding 24 hours tons 1595 lbs.

Coal remaining on hand at Noon 83 " 840 "

P.M.														
1			E	3		30.02	78	80	77		bc	Cum Nimb	1	
2			E by N	"		29.99	"	79	"		o	"	"	
3			"	"		29.98	"	"	78		"	"	"	
4			"	"		29.97	"	"	"		"	"	"	
5			"	4		29.98	"	"	"		bc	"	4	
6			"	5		29.99	"	"	"		"	"	6	
7			"	4		30.00	"	"	"		"	"	7	
8			"	"		30.01	"	"	"		"	"	8	
9			"	"		30.03	"	"	"		"	Cum	1	
10			E	"		30.04	"	"	"		o	Cum Nimb	0	
11			"	"		"	"	80	"		"	"	"	
Mid.			"	"		30.03	"	"	"		"	"	"	

Longitude by Chronometer from Afternoon Observations ° ' "

Longitude by Chronometer Observations ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Sunday April 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and pleasant. Light airs from N. and W.
Distilling.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant, with light airs from S. and W. Barometer steady. Stopped
distilling at 5.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Overcast. Cool. Pleasant. Light variable breeze. Cum. Nimb. clouds. At 8.15,
stopped distilling. At 9.45 the Commander inspected crew and ship. The following named men
were found absent without leave. Viz. Dennis Kreliker (Sea) James Brown (C. F. C.) Edward
Case (Cooper) Theo W. Hackett (Arm) W. M. McCann (A. S.2.C.) Michael Maugan (O. S.2.C.)
Thos Murphy (O.S.2.C) Edm C Jake (O.S.2.C.) Walter C. Blake (Mach) James Hennesy (2.C.
F.) John Pratt (Lds E. F.) James Sutton (Lds C.F.) James Shields (Lds C.F.) Thos Foley (Lds
C.F.) and Patrick D. Case (Corp). At 10.45, James Shields (Lds C.F.) and at 11.17 James
Brown (C. F. C.) and Thos Foley (Lds C.F.) returned from liberty. At 10, called all hands to
muster when Commander read prayers. Banked fires in two boilers and dying out in two. Steam
pressure 30 lbs. Temp of bunkers 102°.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Overcast, with moderate breeze from N. and E.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Cool. Pleasant. Moderate E. by N. breeze. Cum. Nimb. clouds. At
6.35, Thos W. Hackett (Arm) returned from liberty. Temp of bunkers 100°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast. Moderate breeze from E. Temp of bunkers 100°. Barometer
steady.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.														
1			E by N	4		30.02	79	79	79		o	Cum Nimb	0	
2			"	3		30.01	78	"	"		"	"	"	
3			"	"		30.00	"	"	"		"	"	"	
4			"	"		29.99	"	"	"		"	"	"	
5			ESE	2		30.01	"	"	78		"	"	"	
6			"	1		30.03	"	"	"		"	"	"	
7			E	2		"	"	"	"		"	"	"	
8			ESE	"		"	"	"	"		"	"	"	
9			"	"		"	"	"	"		"	"	"	
10			"	"		"	"	"	"		"	"	"	
11			"	"		"	"	"	"		"	"	"	
Noon			ENE	3		29.99	79	80	"	was	"	"	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon o ' "

Longitude by D. R. at Noon o ' "

Latitude by Observations at Noon o ' "

Longitude by Chronometer from Forenoon Observations o ' "

Current during the knots fms. per hour, setting to the

Variation of the Compass by Amplitude o observed at Sunrise o " "

Variation of the Compass by Azimuth o observed at " " "

Water expended during the preceding 24 hours 251 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2449 "

Coal consumed during the preceding 24 hours tons 1265 lbs.

Coal remaining on hand at Noon 82 " 1815 "

P.M.																
1				SE	3		30.00	78	80	79		o	Cum Nimb	0		
2				"	2		29.98	"	"	"		"	"	"		
3				"	"		29.95	"	"	"		"	"	"		
4				E by S	"		30.10	"	"	"		"	"	"		
5				"	3		29.90	79	81	"		bc	Cum	7		
6				"	"		"	"	"	"		"	Cum Nimb	8		
7				"	"		29.92	"	"	"		"	"	9		
8				"	2		29.93	"	"	"		"	Cum	"		
9				"	"		29.97	"	"	"		bcw	"	"		
10				"	3		29.99	78	80	78		"	"	"		
11				"	2		30.00	"	"	"		"	"	0		
Mid.				S	"		30.10	"	"	"		"	"	6		

Longitude by Chronometer from Afternoon Observations o ' "

Longitude by Chronometer Observations * o ' "

Variation of the Compass by Amplitude o observed at Sunset o ' "

Variation of the Compass by at o ' "

under the command of Commander Winfield Scott Schley
Monday April 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Moderate E. by N. breeze. Cum. Nimb. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast and pleasant. Light breeze from S. and E. Lowered smoke stack.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Overcast and pleasant. Late breeze from S. and E. Sent Midshipman and Ord. Sargt. onshore to hunt up men overstaying liberty. At 11.30, returned with 10 men.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. overcast. Pleasant. Light breeze from S. and E. Edward Case (Cooper) Patrick D. Case (Carp) Thomas Ludden (Lds) Samuel Griffin (O.L.2.C) P. O'Donnell (Lds E. F.) and John Pratt (Lds C.F.) were brought aboard by Ord. Sargt., having overstayed liberty. Quarterly Board of Survey condemned 1 keg, 17 lbs, butter, to be turned in for slush. Marked C.J. Euroy, Inspector, Breton Feb 1874.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Moderate breeze from E. by S. Carpenter W. W. Richardson left the ship on 48 hour leave of absence.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear greater part of watch. Heavy dew. Light breeze from S. and E. hauling to S. last hour.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Vera Cruz, Mexico

Hour.	Knots.	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				S	1		29.90	79	80	79		o	Cum Nimb	0	
2				"	0-1		29.88	78	79	78		bc	"	9	
3				SW	2		"	"	"	"		"	"	"	
4				"	"		29.87	"	"	"		"	"	8	
5				"	1-2		29.86	75	78	"		"	"	"	
6				"	1		29.93	"	77	77		"	"	"	
7				SSE	1-2		"	"	"	76		"	"	"	
8				"	"		29.96	76	79	"		"	"	"	
9				SE	2		29.99	78	80	79		"	"	"	
10				E by S	"		29.97	79	81	80		"	"	"	
11				"	"		29.95	80	82	"		"	"	"	
Noon				"	"		29.92	"	"	"		b	none	10	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.	
Latitude by D. R. at Noon	0	"	"
Longitude by D. R. at Noon	0	"	"
Latitude by Observations at Noon ☉	0	"	"
Longitude by Chronometer from Forenoon Observations ☉	0	"	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			312 gallons
Water during the preceding 24 hours			"
Water remaining on hand fit for me at Noon			2137 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	128	"	627

P.M.									
1	E by S	4	29.88	81	84	84	bc	Cum	9
2	ENE	3-4	29.85	"	83	82	"	"	"
3	"	3	29.83	80	"	81	"	"	"
4	"	2	29.85	"	"	"	"	"	"
5	ESE	3	29.81	81	82	80	"	Cir Cum	"
6	"	"	29.83	"	"	"	"	"	"
7	"	"	"	"	"	"	bcm	"	"
8	"	2	29.81	"	"	"	"	"	"
9	"	"	29.87	"	"	"	"	"	7
10	"	1-2	29.85	80	"	"	"	Cum Nimb	4
11	"	3	29.87	"	"	"	"	"	3
Mid.	SSW	1-2	"	"	"	"	"	"	5

Longitude by Chronometer from Afternoon Observations	⊙	+	—
Longitude by Chronometer Observations	*	⊙	+
Variation of the Compass by Amplitude		⊙	+
	observed at Sunset		
Variation of the Compass by		⊙	+
	at		

under the command of Commander Winfield Scott Schley
Tuesday April 17th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast first hour, afterwards clear and pleasant. Light airs from S. and W.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear. Cool. Pleasant. Late S. E. breeze. Cum Clouds. Made preparations for coaling ship. At 7.30, commence coaling.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from S. and E. Engaged in calling ship. Sent liberty party ashore until 9 AM 18th inst.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E. Coaling ship. Transferred 10 gallons of oil from Engineer Department to Navigators Department, the supply for the Navigators Department being exhausted.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant, light haze. Moderate breeze from E. S. E. Lieutenant Wainwright Kellogg and Midshipman T. D. Griffin left the ship on leave of absence for one week. Finished calling ship, having received on board 51 132/2000 tons.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Weather warm and misty. Moderate breeze from E. Squally.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				variable	1		29.85	78	79	78		bc	Cum	9	
2				South	1-2		29.83	77	"	"		"	"	"	
3				"	3		29.80	"	"	"		"	"	"	
4				"	"		"	"	"	"		"	"	"	
5				S by W	"		29.81	76	"	"		bcm	"	"	
6				"	"		"	77	"	"		"	"	"	
7				"	4		29.82	78	"	"		bc	"	"	
8				"	"		"	"	"	"		"	"	"	
9				S	3		29.83	80	80	79		"	"	"	
10				SE	2-3		"	81	82	81		"	"	"	
11				ESE	2		"	82	84	83		"	"	"	
Noon				"	"		29.81	83	85	"		"	"	"	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon	°	' "
Longitude by Chronometer from Forenoon Observations	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	°	" "
Variation of the Compass by Azimuth	°	" "
Water expended during the preceding 24 hours		245 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1892 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	128	" 25 "

P.M.															
1				ESE	2		29.77	84	86	84		bc	Cum	9	
2				ENE	3		29.74	85	"	"		"	"	"	
3				N	3-5		29.72	82	84	82		bcq	"	"	
4				"	4-6		29.74	"	"	"		"	"	"	
5				"	4-5		29.79	79	82	79		"	"	7	
6				"	4-6		29.80	"	81	78		"	Cir Cum	"	
7				"	"		29.84	78	"	"		"	"	5	
8				"	"		29.86	77	80	77		"	"	6	
9				"	5-8		29.84	"	"	"		"	"	"	
10				"	5-9		29.87	"	79	76		bq	none	10	
11				"	"		29.88	76	"	"		"	"	"	
Mid.				"	"		"	78	"	"		"	"	"	

Longitude by Chronometer from Afternoon Observations	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Wednesday April 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with moderate breeze from S.

(Signed) Sam. C. Lemly, Ensign U.S.N.

From 4 to 8 A.M. Clear. Cool. Pleasant. Moderate S. by W. breeze. Cum clouds. Received in Pay Department 160 lbs. fresh meat and 120 lbs. vegetables.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and warm. Light breeze from S. and W. At 9.30, inspected at quarters. The following men were absent, having remained ashore after expiration of liberty. David Dalton (Ships Cook) Louie Zachman (Ord Sea) Charlie White (P.M.) James Flynn (P.M.) Richard Jones (W. R. C.) Wm. H. Johnson (W.O.C.) and John Turney (Lds). The above named men, except John Turney, returned at 10 o'clock. The Quarterly Board of Survey condemned and threw overboard 1 keg of pickles. The Paymaster paid the crew their monthly allowance of money.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Cum clouds. Moderate E[aster]ly breeze until 2.30, until it freshened into a moderate gale, with fresh squalls, from N. John Turney (Lds) returned from liberty. Veered to waters edge 30 fathoms on starboard chain and 33 on port. Slacked stern fasts. By order of Commanding Officer, Midshipman Richard Henderson was restored to duty. Stationed crew for torpedo exercise, expended one D. E. fuze.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and cool. Strong breeze from the N. At sunset sent down topgallant masts, secured boats and battery. Ship rolling slightly. Veered to 40 fathoms on port chain. Barometer rising.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Bright moonlight until 11.30, when she said. Blowing gale, with heavy gusts, from N. Let go sheet anchor, 15 fathoms shackle water's edge. Veered to 47 fathoms port and 41 on starboard chain. Braced up by port braces at 9.30.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear sky, in fms.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				N	4-6		29.92	75	79	76		bcq	Cum	5	
2				"	"		29.91	"	"	"		"	"	3	
3				"	3-6		29.92	76	78	"		"	Cum Nimb	"	
4				"	"		29.94	"	"	"		"	"	1	
5				NNW	3-5		29.97	"	"	76		"	"	"	
6				NW by N	3-1		29.98	"	"	"		c	"	"	
7				NW	1-2		29.97	77	"	77		o	"	0	
8				calm	0		"	78	81	79		"	"	"	
9				"	"		29.98	"	"	"		"	"	"	
10				"	"		"	"	79	75		"	"	"	
11				"	"		29.96	79	82	80		bo	"	1	
Noon				"	"		29.94	"	"	81		"	"	"	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ☉	o	' "
Longitude by Chronometer from Forenoon Observations ☉	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ☉ observed at	o	" "
Water expended during the preceding 24 hours		255 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1637 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	127	" 1990 "

P.M.															
1				N by W	1-2		29.91	80	82	79		bc	Cum	3	
2				N	"		29.89	"	"	78		"	Cum Nimb	2	
3				N by E	3		29.88	"	"	"		o	"	0	
4				"	"		"	"	"	"		"	"	"	
5				"	1		29.87	"	"	"		bc	"	1	
6				"	2		29.89	78	81	"		"	"	3	
7				"	"		29.90	"	80	"		"	"	8	
8				"	"		29.91	"	79	77		b	none	10	
9				"	"		29.93	"	80	"		bc	Cum Str	9	
10				"	"		29.94	"	79	"		"	Cir Cum	"	
11				N	1-2		29.95	"	"	"		"	Cir	"	
Mid.				NNW	"		29.94	"	"	"		b	none	10	

Longitude by Chronometer from Afternoon Observations ☉	o	' "
Longitude by Chronometer Observations *	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley
Thursday April 19th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Wind from the N. blowing in fresh squalls. Rolling slightly. At 12, veered to 60 fathoms on port chain, 50 on starboard chain and 30 fathoms on sheet chain.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast, with moderate breeze from N. and W. first hour. Calm, with light airs, remainder of watch. At 8, sent up topgallant masts.

(Signed) John Schouler
Lieut. Cmdr.

From 8 to Merid. Overcast. Warm. Calm. Cum. Nimb. clouds. At 8.45, hove up sheet anchor, and hove in to 22 1/2 fathoms, water's edge, on bower. U.S. Mail Steamer "City of Mexico" went out at 11.30.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Cloudy, warm, with moderate breeze from N. Weighed stream anchor and laid it out to S., with 50 fathoms hawser. At Merid, American Mail Steamer "City of Havana" went out.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy first, clear last half of watch. Warm. Light N. by E. airs. Cum. Nimb. clouds. By order of Commanding Officer, Francis Giles (Lds C.F.) stood 1 1/4 hours extra watch on quarterdeck. At sundown send down topgallant masts. Received the following stores in Medical Department, Viz, Acidum AcetiCum 1/2 lb. Acidum CarboliCum 2 lb. Acidum MuriatiCum 2 oz. Acidum TartariCum 1 lb. Aslipir Cuatum 2 lbs. Alturis Spts. Nit, 1 lb. Alcohol 4 1/2 lbs. Ammoniae Aqua 1 lb. Ammoniae Murias 1/2 lb. Antimonii et Potass, tart, 1 oz. Chloroformun Purificatum 1 lb. Ferri chloridi tinctura 1/2 lbs. Glycyubizae pulois 4 oz. Glycyubizae extractum 2 lb. Jucacuanhas ext. 1 oz. Monhuas oleum 12 pts. Potass. bicarb 1/2 lb. Potass. chloren 4 oz. Resinae Cuatum 2 lbs. Sinapism pafun 3 boxes. Tigllii olunu 1/2 oz. Measure glass 6 oz, 1. Measure glass 2 oz, 1. Spatula 3 in, 1. Sugar 5 lbs. Test Tubes 1 set. Paponis linimentum 1 lb. Scillae syrupus 4 lbs. Olivae oleum 2 lbs. Menthae pipe, oleum 1 oz. Potas et sod, tart, 2 1/2 lbs. Quinia Sulphas 10 oz.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Moonlight. Light breeze from N.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Hour.	Knots Fathoms.	Cou rses steer ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Pop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. atrd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1			N by E	1		29.90	77	78	76		bc	Cum Nimb	6		
2			"	"		29.89	"	"	"		o	"	0		
3			variable	"		29.88	"	"	77		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			N	1-2		29.90	"	"	76		oc	"	"		
6			"	2		"	"	79	"		"	"	"		
7			"	"		"	"	"	"		"	"	"		
8			"	"		"	"	"	77		"	"	"		
9			"	"		29.91	78	80	"		o	"	"		
10			N by W	"		29.93	"	81	78		bc	"	2		
11			"	"		29.96	79	"	"		"	"	3		
Noon			N	"		29.94	80	"	"		"	"	2		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0		"
Longitude by D. R. at Noon	0		"
Latitude by Observations at Noon ☉	0		"
Longitude by Chronometer from Forenoon Observations ☉	0		"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"
Variation of the Compass by Azimuth ☉ observed at	0		"
Water expended during the preceding 24 hours			260 gallons
Water during the preceding 24 hours			"
Water remaining on hand fit for me at Noon			1377 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	127	"	1715 "

P,M									
1	N by E	2	29.93	80	81	79	bc	Cir Cum	4
2	"	"	29.90	"	82	"	"	"	3
3	"	"	29.89	79	"	"	"	"	6
4	"	"	29.87	78	"	"	"	"	"
5	NNE	"	29.88	80	81	"	"	"	7
6	"	1-2	"	79	"	"	"	Cum Str	8
7	"	"	29.89	"	80	"	"	"	9
8	"	1	29.91	"	"	78	"	Str	"
9	"	0-1	29.95	"	81	79	bcm	"	6
10	"	"	"	"	"	"	"	Cum Str	4
11	"	"	29.93	"	80	"	"	"	"
Mid.	NNW	1	29.90	"	79	78	"	"	3

Longitude by Chronometer from Afternoon Observations	0	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley , U. S. Navy.
Friday April 20th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Light variable airs. Cum. Nimb. clouds.
(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast and cool. Gentle breeze from N. Received fresh provisions for crew.
At 8, sent up topgallant masts.
(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Cloudy but pleasant. Light reused from N. At 9.30, mustered at quarters.
Exercised at fire quarters. At 9.50, a Mexican Gunboat came in. Richard Beale (Match) reported
expiration of time of service.
(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Moderate breeze from N. and E. Exercised at
unbending and bending sails.
(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant, with light breeze from N. N. E.
(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Partially overcast but pleasant, light airs from N. and E. shifting to N. and
W. during last hour. Barometer falling slowly.
(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct
(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by sym- bol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther- m. at t'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				SW	1-2		29.90	77	78	76		bc	Cum	9	
2				"	"		29.88	76	"	"		bc	none	10	
3				"	1		29.87	"	"	"		"	Cum	9	
4				SSW	"		29.88	"	"	"		o	"	6	
5				"	1		"	77	"	"		"	Cum Nimb	0	
6				WSW	"		29.91	"	"	"		"	"	"	
7				W	"		29.94	"	"	77		"	"	"	
8				"	"		29.97	"	"	"		"	"	"	
9				NNW	"		"	78	79	79		bc	"	1	
10				N	0-1		29.95	"	82	"		bcp	"	"	
11				"	"		29.98	79	"	80		bc	Cum	2	
Noon				ENE	2		29.97	80	83	87		"	Cir Cum	5	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon	o	"
Longitude by Chronometer from Forenoon Observations	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	o	"
Variation of the Compass by Azimuth	o	"
Water expended during the preceding 24 hours		257 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1120 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	127	1440 "

P.M.															
1				ENE	2		29.91	79	82	80		bc	Cir Cum	8	
2				NE by E	3		29.88	78	"	"		"	"	"	
3				ENE	"		29.86	79	"	"		"	"	9	
4				"	4		29.85	"	"	"		"	"	"	
5				"	3		"	"	"	"		"	"	7	
6				"	2-3		"	"	"	"		"	"	"	
7				"	2		"	"	"	"		"	"	"	
8				"	0-1		29.86	80	"	"		"	"	"	
9				"	"		29.94	"	"	"		bcm	"	4	
10				variable	"		29.95	"	"	"		"	"	"	
11				"	"		29.96	"	"	"		"	"	6	
Mid.				W	"		29.95	"	"	"		"	"	7	

Longitude by Chronometer from Afternoon Observations	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

under the command of Commander Winfield Scott Schley
Saturday April 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light airs from S. W. Moon set at 1.15.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Overcast. Cool. Pleasant. Light S. and W. airs. Cum. Nimb. clouds.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather cloudy and warm. Warm light airs from N.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze from E. N. E. Cir. Cum. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy and warm. Moderate breeze from the E. Wind decreasing. Gave John P. Marker (1.C.B.) 1 hour on a seam by order of Commanding Officer. Received \$2500 in Pay Department.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Damp. Light variable airs. Cir. Cum. clouds passing over from S. Obscured moonlight.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steered.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.				
A.M.														
1				Calm	0		29.95	79	82	80	bc	Cum	5	
2				"	"		29.93	"	81	79	"	"	3	
3				variable	0-1		29.91	"	"	"	o	Cum Nimb	0	
4				"	"		29.90	"	"	"	"	"	1	
5				ENE	2		29.93	"	"	"	om	"	2	
6				calm	0		29.97	"	"	80	bcm	"	6	
7				N by E	0-1		29.99	"	"	"	bc	"	7	
8				N by W	2		30.00	80	"	"	bcm	Cum	8	
9				NNW	"		30.01	"	82	81	bc	"	9	
10				"	"		30.00	"	83	82	"	"	"	
11				"	"		"	"	84	"	"	"	"	
Noon				"	"		29.99	81	"	83	"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ☉	o	' "
Longitude by Chronometer from Forenoon Observations ☉	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ☉ observed at	o	" "
Water expended during the preceding 24 hours		252 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		868 "
Coal consumed during the preceding 24 hours	1 tons	785 lbs.
Coal remaining on hand at Noon	126 "	655 "

P.M.														
1				NW	2		29.98	81	85	83	bcm	Cum	9	
2				"	"		"	82	86	84	"	"	8	
3				NE	"		29.94	"	85	"	"	"	9	
4				NE by E	3		29.92	"	84	83	"	"	"	
5				ENE	"		29.91	"	"	"	"	"	"	
6				"	"		29.95	"	83	82	"	"	"	
7				E by N	4		29.96	"	"	"	"	Cum Str	"	
8				E	"		29.95	80	82	80	"	"	"	
9				ESE	1-2		29.98	"	"	"	bc	Cir Cum	6	
10				"	0-1		29.99	"	"	"	"	"	2	
11				SE by E	"		"	"	"	"	"	"	1	
Mid.				"	"		29.98	"	"	"	"	"	0	

Longitude by Chronometer from Afternoon Observations ☉	o	' "
Longitude by Chronometer Observations *	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley
Sunday April 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy and warm, light variable airs during last hour.
Barometer falling slowly.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy, warm and misty, with light variable airs. At 8, crossed topgallant yards. At 6, started fires in two boilers for purpose of distilling. Received on board for crew 160 lbs fresh beef, 140 lbs vegetables, 127 lbs fresh bread.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light N[orther]ly breeze. Cum. clouds. At 9.45, inspected and mustered at quarters. At 10, Commanding Officer inspected ship and crew at quarters, immediately after read prayers. At 10.15, Commenced distilling. Banked fires in two boilers. Average steam pressure 30 lbs.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear, warm, with light breezes from N. and W. shifting to N. and E. Fires banked in two boilers. Average pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Damp. Moderate E. N. E. breeze shifting to E. Cum. Str. clouds. At sundown sent down topgallant yards. By order of Commanding Officer, Michael Cleary (2r.Gr.) and George N. Fisher (1.C.B.) stood 1 1/4 hours extra watch. Banked fires in two boilers. Ever steam pressure 35 lbs. Temp of bunkers 102°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Cloudy, warm, damp with light airs from S. and E. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms	Cours steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by sym- bol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				calm	0		29.95	79	82	80		bcm	Cir Cum	3	
2				"	"		29.93	"	81	79		"	"	5	
3				variable	0-1		29.91	"	"	"		"	"	6	
4				"	"		29.90	"	"	"		"	"	3	
5				ENE	2		29.93	"	"	"		"	"	4	
6				calm	0		29.97	"	"	84		bc	"	5	
7				N by E	0-1		29.99	"	"	"		"	"	"	
8				N by W	2		30.00	80	"	82		"	"	7	
9				NNW	"		30.01	"	82	81		"	"	2	
10				"	"		30.00	"	83	82		"	"	1	
11				"	"		"	"	84	"		"	"	4	
Noon				"	"		29.99	81	"	83		"	"	8	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		246 gallons.
Water during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		1352 "
Coal consumed during the preceding 24 hours	1 tons	555 lbs.
Coal remaining on hand at Noon	125 "	100 "

P.M.															
1				NW	2		29.98	81	85	84		bc	Cum	9	
2				"	"		"	82	86	"		"	"	"	
3				NE	"		29.94	"	85	83		b	none	10	
4				NE by E	3		29.92	"	84	82		"	"	"	
5				ENE	"		29.91	"	"	"		"	"	"	
6				"	"		29.93	"	83	"		"	"	"	
7				E by N	4		29.96	"	"	"		"	"	"	
8				E	"		29.95	80	82	81		bc	Cum	9	
9				ESE	1-2		29.98	"	"	82		"	"	3	
10				"	0-1		29.99	"	"	"		"	"	4	
11				SE by E	"		"	"	"	81		"	"	2	
Mid.				"	"		29.98	"	"	"		"	"	"	

Longitude by Chronometer from Afternoon Observations	0	"	"
Longitude by Chronometer Observations	*	0	"
Variation of the Compass by Amplitude	observed at Sunset	0	"
Variation of the Compass by	at	0	"

under the command of Commander Winfield Scott Schley
Monday April 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first, clear latter part of watch. Light breeze from E. Moon set at 2.30. Banked fires in two boilers. Average steam pressure 30 lbs.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Partially overcast during first hour, afterwards, warm and pleasant, hazy around horizon. Average steam 30 lbs. Temp of bunkers 96°. Distilling.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Clear and warm. Light airs from N. and E. Lieutenant Wainwright Kellogg and Midshipman T. E. Griffin returned from leave. Mexican Gunboats "Libertad" and "Independencia" came in and anchored. Broke out spare topsails. Carpenters gang engaged in caulking gig. Painters in touching up spots outside Forge in use. At 9.30, went to General Quarters and exercise. Fires banked in two boilers. Average steam pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and E. Distilling.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N. and E. By order of Commanding Officer, G. W. Griswold, an American in distress, was taken up on the books to receive a ration. Fires banked in two boilers. Average steam pressure 30 lbs. Distilling. At 4.30, called all hands and exercised at shifting topsails. At sundown send down topgallant yards.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Weather Overcast during entire watch. Light airs from N. and E. Distilling.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Vera Cruz, Mexico

Hour.	Knots .	Fathoms.	Cours steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M	.															
1				Calm	0		30.00	82	82	80		o	Cum Nimb	0		
2				"	"		"	"	"			"	"	"		
3				"	"		29.95	"	"			bc	"	5		
4				"	"		30.00	81	"	"		"	"	7		
5				"	"		29.98	80	81	"		"	"	"		
6				W	0-1		29.96	"	"	"		"	"	8		
7				"	"		29.97	"	83	81		"	"	7		
8				"	"		"	82	85	83		"	"	6		
9				SW	1		"	"	"			"	Cum			
10				SSE	"		29.95	"	86	84		"	"	7		
11				E	2		29.93	"	"	"		"	"	"		
Noon				"	"		29.91	"	"	"		"	"	8		

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon	0			"
Longitude by Chronometer from Forenoon Observations	0			"
Current during the time	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude observed at Sunrise	0		"	"
Variation of the Compass by Azimuth observed at	0		"	"
Water expended during the preceding 24 hours				245 gallons
Water condensed during the preceding 24 hours				730 "
Water remaining on hand fit for me at Noon				1337 "
Coal consumed during the preceding 24 hours	1	tons	465	lbs.
Coal remaining on hand at Noon	123	"	1875	"

P,M									
1	E by N	3	29.90	82	86	84	bc	Cum	9
2	"	"	29.87	"	"	"	"	"	"
3	"	"	29.85	"	85	82	"	"	"
4	"	"	29.85	"	"	"	"	"	"
5	"	4	29.83	"	84	"	"	"	7
6	"	"	29.84	81	83	"	"	"	8
7	"	3	29.85	80	"	"	"	"	"
8	"	2-3	29.87	81	"	"	"	"	"
9	E	1-2	29.90	"	"	81	bcm	"	"
10	WSW	"	29.92	"	"	"	"	"	"
11	"	"	"	"	"	"	"	"	9
Mid.	"	0-1	29.91	80	82	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	⊙	⊙
Longitude by Chronometer Observations	*	⊙	⊙
Variation of the Compass by Amplitude		⊙	⊙
observed at Sunset			
Variation of the Compass by		⊙	⊙
at			

under the command of Commander Winfield Scott Schley
Tuesday April 24th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast first two hours, clear last two hours of watch. Calm. Moderate swell from N. N. E. Banked fires in two boilers. Average pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Warm. Light W[ester]ly airs. Cum. Nimb. clouds. Banked fires in two boilers. Average steam pressure 30 lbs. Distilling. At 8, crossed topgallant yards and loosed sail.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from the E. Inspected at quarters at 9.15. Exercised battalion at infantry tactics and dress parade. Broke out the hold. At 11.30, furled sail. Distilling.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Fresh E[aster]ly breeze. Cum. clouds. Received in Pay Department \$1725.00 in Mexican coin. Banked fires into boilers. Average steam pressure 30 lbs. Temp of bunkers 100°. Distilling. By order of Commanding Officer, Frank L. Handley (1.C.B.) stood two hours extra duty. Finished breaking out hold and sail. 15 fathoms of sheet chain below.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Pleasant weather. Fresh breeze from E. Restowed the hold. Received in Engineers Department 150 galls. of sperm oil and 100 lbs of waste. Sent down topgallant yards at sunset. Michael Cleary (2rGr) E. F. Ferry (O.S.2.C.) and George N. Fisher (1.C.B.) stood 1 1/2 hours extra duty by order of Commanding Officer.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Hazy. Light W. S. W. breeze. Bright moonlight. Cum. clouds. Banked fires in two boilers. Average steam pressure 30 lbs. Distilling. By order of Commanding Officer, Michael Cleary (2rGr) George N. Fisher (1.C.B.) and E. F. Ferry (O.S.2.C.) stood one hour extra watch.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				calm	0		29.89	80	82	81		bcm	Cum	9	
2				"	"		29.87	"	"	"		"	"	"	
3				"	"		29.85	"	"	"		"	"	7	
4				"	"		"	"	81	80		"	"	"	
5				ESE	1-2		29.89	"	"	"		bc	Cum Str	8	
6				SSE	"		29.91	"	82	81		bcm	Cir Cum	4	
7				"	"		29.92	"	"	"		"	"	5	
8				"	2		"	"	84	82		"	"	4	
9				"	1-2		"	"	85	84		bc	"	8	
10				ESE	"		29.	82	86	"		"	"	"	
11				E by N	"			83	87	"		"	"	"	
Noon				"	"			82	85	"		"	"	"	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude observed at Sunrise	0	"
Variation of the Compass by Azimuth observed at	0	"
Water expended during the preceding 24 hours		245 gallons.
Water condensed during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		2322 "
Coal consumed during the preceding 24 hours	1 tons	555 lbs.
Coal remaining on hand at Noon	122 "	1320 "

P.M.															
1				E	3		29.86	83	86	83		bc	Cir Cum	7	
2				"	"		29.84	"	"	"		"	"	5	
3				"	4		29.81	"	"	"		"	"	3	
4				E by S	"		29.80	"	84	82		"	"	2	
5				"	3		29.77	81	"	"		"	"	"	
6				"	2		29.77	"	"	"		"	Cum Nimb	3	
7				"	3		29.78	"	85	"		bcm	"	1	
8				"	"		29.80	"	84	"		"	Cir Cum Nimb	2	
9				S by E	1-2		29.84	"	"	83		bc	Cir Cum	6	
10				"	0-1		29.85	"	"	82		"	Cum	9	
11				"	1-2		"	"	83	"		"	"	"	
Mid.				"	"		29.84	"	"	81		b	none	10	

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Wednesday April 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather warm and misty. Calm. Heavy dew. Distilling.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 A.M. Misty. Pleasant. Light airs from S. and E. At 8, crossed topgallant yards.
Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Light S. S. E. airs shifting to E. Cir. Cum. clouds. At 9.30, inspected crew at quarters. Exercised 1st and 2nd Divisions at great guns, and Marine Guard at small arms. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 102°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. Barometer falling slowly.
Distilling. Engaged in painting ship.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Cloudy. Damp. Warm. Fresh E. by S. breeze. Cir. Cum. Nimb. clouds passing from S. At sundown sent down topgallant yards. By order of Commanding Officer Michael Cleary (2rGr) and E. F. Ferry (O.S.2.C.) stood 1 1/2 hours extra duty. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 102°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear, warm. Light airs from S. and E. At 11°[hours]. 19'[minutes]. 00"[seconds] sounded call to General Quarters. Time. Cast loose. Engineer Div, 11°. 22'. 30". Marine Guard 11° 23' 00". 1st and 2nd Divs, 11° 23' 30". Masters Div, 11° 24' 00". Powder Div, 11° 22' 30". Secure at 11° 29' 30". Masters Div, 11° 31' 00". Powder Div, 11° 32' 00". Surgeon's Div, 11° 30' 00". 1st Div, 11° 33' 45". 2nd Div, 11° 32' 45". Retreat at 11° 34' 09". Average steam pressure 30 lbs. Temp of bunkers 100°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther- m. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				SW	1-2		29.82	80	83	81		bcm	Cir Cum	8	
2				"	2		29.80	"	"	"		"	"	9	
3				S	3		29.79	"	82	"		bc	"	7	
4				"	"		"	79	"	80		"	"	6	
5				"	"		29.	80	80	79		b	none	10	
6				"	2		29.	"	81	"		"	"	"	
7				"	1-2		29.	"	82	80		"	"	"	
8				SSE	2		29.	"	83	82		"	"	"	
9				"	"		29.	81	84	"		bc	Cum	9	
10				E	"		"	"	85	83		"	"	"	
11				"	"		"	"	"	"		b	none	10	
Noon				"	"		"	"	86	"		"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water condensed during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		2802 "
Coal consumed during the preceding 24 hours	tons	725 lbs.
Coal remaining on hand at Noon	122	595 "

P.M.															
1				E	2		29.78	84	86	84		bm	none	10	
2				ENE	"		29.75	85	87	85		"	"	"	
3				"	"		29.72	"	"	"		"	"	"	
4				"	1-2		29.71	"	"	"		"	"	"	
5				E by S	0-1		29.74	85	86	"		bc	Cir Cum	7	
6				ENE	"		"	84	"	84		"	"	8	
7				SSE	2		29.75	83	85	83		bcm	Cum Str	7	
8				"	0-1		"	"	"	"		"	"	9	
9				SW	"		29.80	"	"	82		"	"	"	
10				calm	0		29.78	82	84	"		bm	none	10	
11				SW	0-1		29.75	"	"	"		"	"	"	
Mid.				Calm	0		29.73	83	"	81		"	"	"	

Longitude by Chronometer from Afternoon Observations ☉	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Thursday April 26th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light S. W. breeze shifting to S. Cir. Cum. clouds passing from N. Moonlight. Banked fires in two boilers. Average steam pressure 30 lbs. Temp of bunkers 100°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from S. and W. At 4.15, stopped the distiller. At 4.20 Moon set. An American barkentine went to sea. Fires banked in two boilers. Average steam 25 lbs. At 8, crossed topgallant yards and loosed sail.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light breeze from E. At 9.20, inspected at quarters. 1st and 2nd Divisions at single sticks. Hauled fires and stopped distilling at 10 AM.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. shifting to N. A Mexican schooner and hermaphrodite brig came in and anchored. Barometer falling. Misty above horizon.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant, with light variable airs. E. F. Ferry (O.S.2.C.) and Michael Cleary (2rGr) stood one and one half hours on quarterdeck.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and pleasant. Calm greater part of watch, with occasional light airs from S. W. Misty. Barometer falling.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		BAROMETER.			TEMPERATURE.			State of the Weather by sym- bol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther- m. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				SE by E	2		29.73	81	83	82		b	none	10	
2				E BY S	"		29.71	80	82	81		"	"	"	
3				E	3		29.70	"	"	80		"	"	"	
4				"	"		29.69	78	81	79		bc	Cir Str	9	
5				S by W	2-3		"	77	80	78		"	Cir Cum	7	
6				"	2		29.70	"	79	77		"	"	6	
7				"	"		29.72	79	81	79		"	"	8	
8				"	2-3		"	81	82	80		"	"	"	
9				"	3		"	82	83	81		bm	none	10	
10				"	2		"	78	85	82		b	"	"	
11				SE by E	"		"	83	86	84		"	"	"	
Noon				"	"		29.70	84	88	85		"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude observed at Sunrise	0	"
Variation of the Compass by Azimuth observed at	0	"
Water expended during the preceding 24 hours		251 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2551 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	122	320 "

P.M.															
1				SE by E	2		29.67	88	89	86		b	none	10	
2				"	"		29.66	85	"	"		"	"	"	
3				ESE	"		29.64	86	"	"		"	"	"	
4				"	"		29.63	85	88	"		"	"	"	
5				SE by E	"		29.64	"	86	85		"	"	"	
6				ESE	"		"	"	"	"		"	"	"	
7				"	1		29.65	84	85	84		"	"	"	
8				"	"		29.70	83	84	83		"	"	"	
9				"	"		"	81	"	"		bm	"	"	
10				SW	"		29.71	83	85	"		"	"	"	
11				"	"		29.72	81	84	"		"	"	"	
Mid.				"	1-2		"	"	83	82		"	"	"	

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley
Friday April 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light breeze from S. and E. Barometer falling slowly. Bright moonlight.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from the S. Received fresh provisions for crew. Sent Carpenter aboard a Danish brig to ascertain the extent of her injuries, for which application to be repaired had been made. Sent up topgallant yards at 8.

(Signed) J. K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Light wind from S. and E. At 9.25, inspected at quarters. At 9.30, exercised at fire quarters. Scraped and oiled spars. Carpenters gang engaged in caulking Danish brig "Nordley".

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from S. and E. Carpenter with four men engaged in caulking Danish brig. Sent ashore and recovered a life buoy, for which two dollars as salvage was paid.

(Signed) J. K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and warm. Light airs from S. and E. At 6, Called all hands and shifted foresail. At sunset sent down topgallant yards. Moon rose at 6.50.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from S. and E. shifting to S. and W. Heavy dew. Bright moonlight.

(Signed) J. K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Cou rse steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Wea- ther by sym- bols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			S	2		29.71	82	88	81		b	none	10	
2			SSW	"		29.69	"	"	"		"	"	"	
3			NW	"		"	81	81	80		"	"	"	
4			NNW	"		29.68	"	"	"		bc	Cir	9	
5			N	3		29.72	"	82	"		"	Cir Cum	8	
6			N by E	4		29.75	"	"	"		"	"	"	
7			NNE	"		29.77	"	"	"		"	"	"	
8			N by W	"		29.78	"	"	"		"	"	"	
9			"	3-4		"	"	83	79		bc q	"	2	
10			"	2-3		"	"	"	80		"	Cir Cum Nimb Cum Nimb	"	
11			"	3		"	81	84	81		oc	"	0	
Noon			N	"		"	"	85	"		bc	"	1	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		252 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2299 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	122	45 "

P.M.														
1			N	5-6		29.78	82	85	83		bcq	Cum Nimb	3	
2			"	"		29.77	"	84	82		"	"	"	
3			"	"		"	"	"	81		"	"	4	
4			"	"		"	"	"	"		"	"	"	
5			"	4-5		"	81	83	80		"	"	3	
6			"	4		29.78	"	"	"		"	"	"	
7			"	"		29.80	80	82	"		"	"	"	
8			"	3-4		29.81	79	"	79		"	"	"	
9			"	3-5		29.84	80	"	"		"	Cir Cum Nimb	4	
10			"	"		29.86	"	"	80		"	"	6	
11			"	"		29.87	"	"	"		"	"	"	
Mid.			"	"		"	"	"	79		"	"	"	

Longitude by Chronometer from Afternoon Observations ☉	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley
Saturday April 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. and W. first part, after words from N. and W. Misty about horizon. Bright moonlight.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear area pleasant. Moderate N[orther]ly breeze. Cir. Cum. clouds.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Cloudy and warm. Light breezes from N. Squally. Veered to 40 fathoms on starboard chain and 30 fathoms on port. Cleared stern hawser of foul around a buoy anchor. Carpenter's gain engaged on Danish brig. Barometer steady.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Strong breeze from N. Carpenter's gang at work on Danish brig. At 2, Royal Mail Steamer "Echo" came in. Boarded her and got papers. Barometer steady.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Weather cloudy and squally. Cool. Fresh reviews from N. Barometer steady. Sea moderate.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Fresh N[orther]ly breeze, with squalls. Cir. Cum. Nimb. clouds passing to E. N. E. Obscured moonlight. By order of Commanding Officer, Michael Cleary (2rGr) stood one hour extra watch.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

		WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.		Forms of Clouds, by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.											
Hour.	Knots	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Therm. at f'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.														
A.M.																													
1				N	4-5		29.87	79	81	79		ocq	Cum Nimb	0															
2				"	4		29.84	"	"	"		"	"	"															
3				"	5		"	"	"	"		"	"	"															
4				"	"		"	"	80	78		"	"	"															
5				"	4		29.86	78	81	"		oq	"	"															
6				"	5		29.88	79	"	"		o	"	"															
7				"	4		29.92	"	"	"		bc	"	1															
8				"	5		29.94	"	"	79		oq	"	0															
9				"	4-7		29.95	77	77	78		bcq	"	1															
10				"	"		"	78	78	"		"	Cir Cum	6															
11				"	"		"	"	"	"		"	"	"															
Noon				"	"		"	"	81	"		"	Cum Nimb	8															
Distance run by Log since preceding Noon																				knots		fathoms.							
Latitude by D. R. at Noon												o	"	"	"	"													
Longitude by D. R. at Noon												o	"	"	"	"													
Latitude by Observations at Noon ⊙												o	"	"	"	"													
Longitude by Chronometer from Forenoon Observations ⊙												o	"	"	"	"													
Current during the time				knots		fms. per hour, setting to the																							
Variation of the Compass by Amplitude ⊙ observed at Sunrise												o	"	"	"	"													
Variation of the Compass by Azimuth ⊙ observed at												o	"	"	"	"													
Water expended during the preceding 24 hours														251 gallons.															
Water during the preceding 24 hours																													
Water remaining on hand fit for me at Noon														2048		"													
Coal consumed during the preceding 24 hours														tons		275	lbs.												
Coal remaining on hand at Noon												121	"	2010	"														
P.M.																													
1				N	4-6		29.94	78	80	77		bcq	Cum Nimb	6															
2				"	5-7		29.91	"	"	"		"	Cir Cum	7															
3				N by W	4-6		29.90	77	"	"		"	"	"															
4				NNW	"		"	"	"	"		"	"	8															
5				"	4-7		"	76	79	"		"	"	"															
6				"	4-6		29.92	"	78	76		"	Cir Cum Nimb	"															
7				"	4-5		29.94	"	"	"		"	"	"															
8				"	"		29.96	"	"	"		"	"	1															
9				"	3-5		30.01	"	"	"		oq	Cum Nimb	0															
10				"	"		30.03	"	"	"		"	"	"															
11				NW by N	3-6		30.02	"	"	"		"	"	"															
Mid.				"	"		30.01	"	77	75		"	"	"															
Longitude by Chronometer from Afternoon Observations ⊙												o	"	"	"														
Longitude by Chronometer Observations												*		o	"	"	"												
Variation of the Compass by Amplitude												observed at Sunset		o	"	"	"												
Variation of the Compass by												at		o	"	"	"												

under the command of Commander Winfield Scott Schley
Sunday April 29th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and squally. Fresh breeze from the N. Barometer study.
Richard Jones (see W.R.C.) stood four hours extra duty.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast, squally. Wind fresh from N. Received fresh provisions for crew.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Strong N[orther]ly wind, with squalls. Cir. Cum. Nimb. clouds. At 9.30, veered about 5 fathoms on starboard chain, bringing an equal strain on both. At 10, Commanding Officer inspected ship and crew at quarters, immediately after read prayers. Barometer steady.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant, with strong wind from N. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Strong N. N. W. wind. Cir. Cum. Nimb. clouds. Barometer rising slowly.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast, cool. Fresh breeze, with squalls, from N. and W. Barometer falling latter part.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther- m. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				NNW	4-6		30.00	75	78	76		oqr	Nimb	0		
2				"	"		29.99	"	"	"		"	"	"		
3				"	4-7		29.98	"	77	75		oq	"	"		
4				"	"		"	"	"	"		"	"	"		
5				"	4-6		"	76	78	"		oqfe	"	"		
6				"	"		30.00	75	"	"		"	"	"		
7				"	"		30.01	"	77	74		"	"	"		
8				"	"		30.05	"	76	"		oq	"	"		
9				"	3-5		30.07	76	77	75		"	Cum Nimb	"		
10				"	"		30.01	"	79	"		"	"	"		
11				"	3		30.07	"	"	77		"	"	"		
Noon				N BY W	"		30.08	"	79	"		"	"	"		
Distance run by Log since preceding Noon																
										knots	fathoms.					
Latitude by D. R. at Noon										0	"	"	"	"	"	"
Longitude by D. R. at Noon										0	"	"	"	"	"	"
Latitude by Observations at Noon ☉										0	"	"	"	"	"	"
Longitude by Chronometer from Forenoon Observations ☉										0	"	"	"	"	"	"
Current during the time										knots	fms. per hour, setting to the					
Variation of the Compass by Amplitude ☉ observed at Sunrise										0	"	"	"	"	"	"
Variation of the Compass by Azimuth ☉ observed at										0	"	"	"	"	"	"
Water expended during the preceding 24 hours										260 gallons.						
Water during the preceding 24 hours										"						
Water remaining on hand fit for me at Noon										1781 "						
Coal consumed during the preceding 24 hours										tons 875 lbs.						
Coal remaining on hand at Noon										121	"	1135	"	"	"	"
P.M.																
1				NNW	5		30.05	77	79	76		o	Cum Nimb	0		
2				"	5-7		30.05	"	78	"		"	"	"		
3				"	"		30.00	"	"	"		"	"	"		
4				N	"		29.99	"	"	"		oq	"	"		
5				NNW	"		30.01	"	"	75		"	"	"		
6				"	"		30.03	"	"	"		"	"	"		
7				"	"		30.04	"	"	"		"	"	"		
8				"	"		30.05	"	"	"		"	"	"		
9				"	"		30.07	76	77	74		"	Cum Nimb	"		
10				"	"		"	"	76	"		"	"	"		
11				"	5-8		30.10	75	77	75		"	"	"		
Mid.				"	"		"	"	"	"		"	"	"		
Longitude by Chronometer from Afternoon Observations ☉										0	"	"	"	"	"	"
Longitude by Chronometer Observations										*	0	"	"	"	"	"
Variation of the Compass by Amplitude										observed at Sunset	0	"	"	"	"	"
Variation of the Compass by										at	0	"	"	"	"	"

under the command of Commander Winfield Scott Schley
Monday April 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Moderate gale with fresh squalls from N.N.W. Nimb. clouds passing to S. Obscured moonlight. Light sprinkling showers.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast and cool. Strong wind from N. N. W. Squally. Barometer rising. Occasional sprinkling showers.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Overcast, squally, fresh breeze from N. N. W. gradually decreasing to a moderate breeze. At 9.20, exercise at General Quarters. Times as follows. Cast loose. 1st Div, 2 m[inutes] 36 sec[onds]. 2nd Div. 2 m 30 sec. Powder Div. 2 m 32 sec. Engineers Div. 1 m. Marine 30 sec. Secured. 1st Div. 2 m 05 sec. 2nd Div. 2 m 45 sec. Navigators Div. 2 m 09 sec. Powder Div. 2 m 48 sec. Engineers Div. 2 m 25 sec. Carpenter's gang at work on Danish brig. Board of Survey condemned and threw overboard 60 lbs bread dust.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast and cool. Strong wind from N. and W. Overhauled both bower chains. Squally last hour. Barometer falling slowly.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Overcast, squally. Wind strong from N. N. W. Barometer rising.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast, squally. Strong wind from N. N. W. Cool. Barometer steady last two hours.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Vera Cruz, Mexico

Hour.	Knots Fathoms.	Course steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1			NNW	5-7		30.10	75	77	74		oq	Cum Nimb	0		
2			"	"		30.08	"	76	"		"	"	"		
3			"	"		"	74	"	"		"	"	"		
4			"	"		30.06	"	"	75		"	"	"		
5			NW	4-6		"	75	"	75		bcq	"	"		
6			"	"		30.09	"	"	"		ocq	"	"		
7			"	4		30.12	"	"	"		oqm	"	"		
8			"	3		30.13	"	"	"		ocm	"	"		
9			NW by N	"		30.16	"	"	"		"	"	"		
10			NNW	"		30.12	"	"	74		"	"	"		
11			"	4		"	"	"	"		"	"	"		
Noon			"	4-5		30.11	73	75	73A		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon	0	1	"
Longitude by Chronometer from Forenoon Observations	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude observed at Sunrise	0	"	"
Variation of the Compass by Azimuth observed at	0	"	"
Water expended during the preceding 24 hours			255 gallons
Water during the preceding 24 hours			"
Water remaining on hand fit for me at Noon			1533 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	121	"	860 "

P,M									
1	NNW	4-5	30.09	74	76	73	oq	Cum Nimb	0
2	"	"	30.08	75	"	75	"	"	"
3	"	"	30.06	"	"	"	"	"	"
4	"	4	30.05	"	"	"	oqd	"	"
5	"	4-5	30.04	"	"	"	oqp	"	"
6	"	2	30.04	"	"	"	"	"	"
7	"	"	30.05	"	"	"	"	"	"
8	WNW	"	30.07	74	75	"	op	"	"
9	WSW	"	30.09	"	76	"	oc	"	"
10	"	1-2	"	"	75	75	"	"	"
11	"	1	30.08	"	"	"	"	"	"
Mid.	"	"	30.07	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	+	⊙
Longitude by Chronometer Observations	*	⊙	+
Variation of the Compass by Amplitude		⊙	+
observed at Sunset		⊙	+
Variation of the Compass by		⊙	+
at		⊙	+

under the command of Commander Winfield Scott Schley
Tuesday May 1st, 1877.

, U. S. Navy.

[Editor's Note: The following note was attached to the log entry for May 1, 1877.]

U.S. Steamer "Essex" (3rd Rate)
Off Vera Cruz Mexico, May 1, 1877.

The following named ordinary seamen second class, have been rated ordinary seamen from the 1st inst, inclusive. Viz.-

John W. Powers.
John Pettit.
Michael Wogan.
John Lucey
William G. Norwood.

Thomas Murphy.
James Bryson.
John W. Scott.
Michael Maugan.
John E. Kirk.

under the command of Commander Winfield Scott Schley
Tuesday May 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, squally. Wind strong from N. N. W. Obscured moonlight. Ship rolling slightly. Sprinkling at 4.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Overcast and misty. Strong wind from N. Squally. Decreasing towards end of watch. Clouds passing to the S. and W. Moderate swell setting to the S. Strong current setting to be E. Riding between wind and current.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast and cool. Fresh breeze from N. N. W. At 9.15, inspected at quarters, afterwards had battalion drill. American schooner "Tecaue" went to sea standing to the S. Carpenter's gang at work on Danish brig "Nordley". Barometer falling slowly.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast and squally. Fresh breeze from N. N. W. Light drizzling rain in latter end of watch. Carpenter's gang at work on Danish brig. Moderate swell from the N. Rolling slightly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast and cool. Light drizzling rain. Commanding Officer left the ship on two days leave of absence. Ship rolling moderately. Long swell from N. and W.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Overcast. Light airs from S. and W. Rolling moderately. Swell setting to the S. Easterly current.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weath- er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.				
A.M.														
1				WNW	2		30.02	74	75	74	o	Nimb	0	
2				"	"		"	"	"	"	bc	"	4	
3				"	1-2		30.00	"	"	"	o	"	0	
4				"	"		"	"	"	"	"	"	"	
5				W	0-1		30.01	73	75	"	c	Cum Nimb	"	
6				"	"		30.02	"	"	"	"	"	"	
7				calm	0		30.05	74	"	"	bc	"	1	
8				"	"		"	"	76	75	"	Cir Cum	2	
9				Variable	0-1		"	"	79	76	"	"	"	
10				"	"		"	76	"	77	"	"	1	
11				NNE	"		30.03	77	78	78	"	"	2	
Noon				"	1-2		30.02	"	"	"	"	"	6	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ☉	o	' "
Longitude by Chronometer from Forenoon Observations ☉	o	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ☉ observed at	o	" "
Water expended during the preceding 24 hours		251 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1282 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	121	585 "

P.M.														
1				NE	2		29.98	77	80	79	bc	Cir Cum	7	
2				"	3		29.97	"	"	"	"	"	6	
3				NE by E	4		"	"	"	"	"	"	6	
4				ENE	5		29.96	"	"	78	"	"	"	
5				"	3		29.89	"	"	79	"	"	"	
6				"	2-3		"	78	"	"	"	"	"	
7				"	2		"	"	"	"	"	"	3	
8				"	"		29.90	"	"	"	"	"	4	
9				ESE	"		29.92	"	"	78	"	"	7	
10				"	"		29.94	"	"	"	"	"	8	
11				S	"		29.92	"	"	"	"	"	"	
Mid.				ESE	"		29.91	"	"	"	"	"	7	

Longitude by Chronometer from Afternoon Observations ☉	o	' "
Longitude by Chronometer Observations *	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley
Wednesday May 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cool. Light airs from N. and W. Ship rolling moderately.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy. Damp. Cool. Cum. Nimb. clouds. At 5, hove in to 22 1/2 fathoms starboard and 20 fathoms port chain at water's edge. Received in Pay Department 160 lbs fresh beef, 140 lbs vegetables and 127 lbs fresh bread.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather warm and pleasant. Gentle breeze from N. and E. Inspected at quarters at 9.30. Exercised 1st and 2nd Divs, at great guns. Powder Division at small arms. Carpenter's gang engaged on Danish brig.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Cool. Pleasant. Moderate N. E[aster]ly breeze. Cir. Cum. clouds. Sent launch in for water. Carpenter's gang at work on Danish brig.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Moderate breeze from E. Received 500 gall's. of water from sure by launch. Royal Mail Steamer "Echo" left at 4.30.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light E. S. E. breeze. Cir. Cum. clouds. Starlight. At 11, moon rose. By order of Commanding Officer, Thos. C. Peuty (O.S.2.C.) and Herman Meyer (1.C.B.) stood one hour extra duty.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

		WINDS.			BAROMETER.			TEMPERATURE.											
Hour.	Knots	Fathoms.	Cou rses steer- ed.	Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weath- er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.			
A.M.																			
1				SW	1-2		29.89	77	78	78		bc	Cum Nimb	2					
2				"	"		29.86	"	"	"		"	Cir Cum Nimb	6					
3				"	1		29.84	"	78	77		"	"	"					
4				"	0-1		"	"	"	"		bcm	"	"					
5				SSW	1		29.85	"	"	"		bc	Cir Cum	5					
6				Calm	0		29.86	76	"	"		"	"	7					
7				S	1		"	"	"	78		"	"	8					
8				S by E	2		"	"	79	79		"	"	9					
9				"	"		"	77	80	80		"	"	"					
10				ESE	"		"	78	81	"		"	"	"					
11				ENE	"		29.82	79	82	"		"	"	6					
Noon				"	"		29.84	"	"	"		"	"	5					
Distance run by Log since preceding Noon												knots	fathoms.						
Latitude by D. R. at Noon												o	'	"					
Longitude by D. R. at Noon												o	'	"					
Latitude by Observations at Noon												o	'	"					
Longitude by Chronometer from Forenoon Observations												o	'	"					
Current during the time												knots	fms. per hour, setting to the						
Variation of the Compass by Amplitude												o	"	"					
Variation of the Compass by Azimuth												o	"	"					
Water expended during the preceding 24 hours														275 gallons.					
Water received														200 "					
Water remaining on hand fit for me at Noon														1207 and "					
Coal consumed during the preceding 24 hours												121	tons	370	lbs.				
Coal remaining on hand at Noon																			
P.M.																			
1				ENE	2		29.81	80	83	81		bc	Cir Cum	6					
2				"	"		29.79	"	"	"		"	"	5					
3				E by N	3		29.78	"	"	82		"	"	4					
4				E	"		29.77	"	"	"		"	"	5					
5				"	2		29.76	"	"	"		bcm	"	6					
6				"	"		29.77	"	"	"		"	"	4					
7				"	1		29.79	79	82	81		"	"	3					
8				calm	0		29.80	"	"	"		"	"	2					
9				"	"		29.84	78	"	"		"	Cum	9					
10				S by E	1		29.83	"	"	"		"	"	8					
11				"	"		29.82	"	"	"		"	"	9					
Mid.				"	"		29.81	"	"	80		"	"	"					
Longitude by Chronometer from Afternoon Observations												o	'	"					
Longitude by Chronometer Observations												*		o	'	"			
Variation of the Compass by Amplitude												observed at Sunset			o	'	"		
Variation of the Compass by												at			o	'	"		

under the command of Commander Winfield Scott Schley
Thursday May 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light breeze from S. and W.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and W. shifting to S. and E. Barometer study.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Pleasant. Light S. by E. breeze. At 9, sent to launch ashore for water. At 9.30, inspected at quarters. Exercised Company A, Marines and boat keeper at small arms. Company B, single sticks. Launch came off with water. Received during the watch about 700 gall's. Inspected apprentice boys in Army code signals, gunnery and seamanship.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant, with light breeze from E. Barometer walling slowly.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Warm. Misty. Light E[aster]ly breeze. Cir. Cum. clouds. At sundown sent down topgallant yards. By order of Commanding Officer, Hermann Meyer (1.C.B.) and Thos. C. Peuty (O.S.2.C.) stood 1 1/4 hours extra watch on quarterdeck.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Misty. Light airs from E. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				SSW	1		29.79	78	81	79		bc	Cir Cum	8		
2				"	"		29.77	"	"	"		"	"	"		
3				"	2		29.76	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				S	"		29.73	"	79	76		"	"	5		
6				"	"		29.75	"	"	77		"	"	9		
7				"	"		29.78	79	80	78		b	none	10		
8				S by E	3		29.79	80	81	79		"	"	"		
9				ESE	2		"	"	82	"		"	"	"		
10				"	"		29.78	81	"	"		"	"	"		
11				"	"		29.76	82	84	82		"	"	"		
Noon				E by S	"		29.75	84	86	84		"	"	"		

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ☉ ° ' "

Longitude by Chronometer from Forenoon Observations ☉ ° ' "

Current during the knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at ° " "

Water expended during the preceding 24 hours 260 gallons.

Water Received during the preceding 24 hours 500 "

Water remaining on hand fit for me at Noon 1547 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 121 " 35 "

P.M.																	
1				E	2		29.73	84	86	84			bm	none	10		
2				ENE	"		29.70	"	"	"			"	"	"		
3				N by E	"		29.69	83	85	"			"	"	"		
4				NNE	0-1		"	"	"	"			"	"	"		
5				N by E	"		29.67	84	"	"			bc	Cir Cum	3		
6				"	"		29.68	"	"	"			"	"	4		
7				calm	0		29.70	"	84	82			"	"	9		
8				N	1		29.72	"	"	"			"	"	"		
9				WNW	"		29.73	82	83	"			"	"	"		
10				"	"		"	"	"	"			bmw	none	10		
11				"	"		"	"	"	"			"	"	"		
Mid.				"	"		"	"	"	"			"	"	"		

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Friday May 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light S. S. W. breeze. Cir. Cum. clouds. Bright moonlight. Moon rose at 12. Very heavy dew.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from S. and E. American Mail Steamer "City of Mexico" came in and anchored. At 8, crossed topgallant yards. Commander W. S. Schley returned from leave.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant, with light breeze from S. and E. At 9.30, mustered at quarters, afterwards went to Fire Quarters. At 9° [9th hour] 32' [minutes] 55" [seconds] Engineers Division reported ready in 28", 1st Division 30", Marine Division 31", Marine Guard 31", 2nd Division 32", Powder Division 34". Secured at 9° 34' 40". Drilled 1st and 2nd Divisions at pistol drill. Sent launch ashore for water. Received mail from the United States.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Sky clear, misty about horizon. Barometer falling slowly. Received on board 500 gall's of fresh water. American Mail Steamer "City of Meridia" and an American schooner came in.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light airs from N. At sundown sent down topgallant yards. By order of Commanding Officer, E. P. Morau (1.C.B.) Patrick Punch (O.S.2.C.) F. C. Jones (1.C.B.) Wm. J. Lindon (O.S.2.C.) Harry Hill (O.S.2.C.) Thos. C. Peuty (O.S.2.C.) and Herman Meyer (1.C.B.) stood one hour on quarter deck.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and damp. Light airs from N. and W. By order of Commanding Officer, gave E. P. Morau (1.C.B.) Patrick Punch (O.S.2.C.) F. C. Jones (1.C.B.) Wm. J. Lindon (O.S.2.C.) two hours extra watch. By the same order, Harry Hill (O.S.2.C.) Thos. C. Peuty (O.S.2.C.) and Herman Meyer (1.C.B.) stood watch from hammocks till tattoo.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cou rse ste ered.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.					
A,M															
1				WNW	2		29.75	82	83	81		bcm	Cum	9	
2				"	0-1		"	"	"	"		bm	none	10	
3				W	"		29.76	"	"	"		bcm	Cum	9	
4				NW by N	4		"	"	"	80		"	"	"	
5				N by W	3		"	80	81	"		"	"	6	
6				N	"		29.81	"	82	"		bc	Cum Str	5	
7				NW	2-3		29.83	"	"	"		"	Cir Cum	4	
8				"	2		29.84	81	83	81		"	"	5	
9				NNW	1		29.82	82	84	83		"	"	8	
10				N	"		"	83	85	"		"	"	9	
11				NE airs	0-1		"	"	"	"		"	"	"	
Noon				NE	"		"	"	"	"		"	"	8	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		260 gallons.
Water received during the preceding 24 hours		600 "
Water remaining on hand fit for me at Noon		1887 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	120	2000 "

P,M															
1				E by N	1		29.75	83	86	84		bc	Cir Cum	8	
2				"	"		29.73	84	87	85		"	"	"	
3				"	"		29.70	85	"	"		"	"	"	
4				"	"		29.69	"	"	"		"	"	"	
5				"	"		29.68	84	86	84		"	"	"	
6				E by S	2		29.70	"	"	"		"	"	7	
7				"	"		29.72	"	"	"		"	"	9	
8				SE	2-3		29.73	82	85	83		b	none	10	
9				"	2		29.75	"	"	"		"	Cum	4	
10				SW	0-1		29.76	"	86	84		bcm	"	"	
11				"	"		"	83	85	83		"	"	"	
Mid.				"	"		29.77	"	"	"		"	"	"	

Longitude by Chronometer from Afternoon Observations ☉	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley
Saturday May 5th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, misty. Light airs from N. and W, increasing to a moderate breeze last hour. By order of Commanding Officer, Geo. H. Pinder (Lds) and Frank Tilghman (1.C.B.) stood for hour extra watch.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Cloudy and misty. Light breeze from N. and W. At sunrise a battery ashore fired a salute of 21 guns. The Mexican Gunboat "Libertad" got underway and stood to the S.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Light airs from N. and E. Barometer falling slowly. At Merid, a battery at north point of city fired a salute of 21 guns.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Whether warm and clear. Light airs from the E. Barometer falling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and warm. Light airs from S. and E. At 6, a battery at north point of city fired a salute of 21 guns. At sunset sent down topgallant yards. Barometer rising slowly.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Warm and cloudy. Light breeze first part, calm latter part.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cou rse ste red.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.				
A.M.														
1				S	0-1		29.75	82	83	82	b	none	10	
2				"	2		"	"	"	"	"	"	"	
3				"	0-1		29.72	"	"	"	"	"	"	
4				"	"		"	"	"	"	"	"	"	
5				"	"		29.74	78	82	80	bcm	Cir Cum	9	
6				"	"		29.76	79	"	"	"	"	"	
7				"	1		29.78	"	"	"	"	"	6	
8				"	"		29.80	80	83	81	"	"	7	
9				SSE	"		"	81	85	82	bm	none	10	
10				"	"		29.79	82	"	83	"	"	"	
11				E	"		29.78	83	86	84	"	"	"	
Noon				"	"		29.77	84	87	"	"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	Knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		260 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1627 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	120	" 1725 "

P.M.														
1				ENE	2		29.75	85	88	85	bc	Cir Cum	9	
2				"	"		29.74	"	"	"	"	"	8	
3				N	3		29.73	"	87	84	"	"	7	
4				N by E	"		29.72	"	"	"	"	"	6	
5				"	1-2		"	84	"	85	"	"	5	
6				"	2-3		29.73	"	86	84	"	"	"	
7				N	3		29.75	83	85	83	"	"	"	
8				"	2		29.79	82	"	"	"	"	"	
9				"	"		29.82	"	84	82	bcm	"	7	
10				calm	0		29.85	"	"	"	bctlm	"	"	
11				N	1		29.87	"	"	"	"	Cir Cum Nimb	6	
Mid.				"	2		"	"	"	"	"	"	7	

Longitude by Chronometer from Afternoon Observations ☉	°	' "	
Longitude by Chronometer Observations *	°	' "	
Variation of the Compass by Amplitude observed at Sunset	°	' "	
Variation of the Compass by at	°	' "	

under the command of Commander Winfield Scott Schley
Sunday May 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. By order of Commanding Officer, Wm H. Johnson (W.O.C) and Geo. H. Pinder (Lds) stood for hours on quarter deck. Moon rose at 1.15.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Pleasant. Misty. Light S[outher]ly airs. Cir. Cum. clouds. Received in Pay Department 160 lbs fresh beef, 140 lbs vegetables and 127 lbs bread. At 8, crossed topgallant yards.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather warm and hazy. Gentle breeze from the E. At 9.45, the Commander inspected ship and crew at quarters. Mustered crew, read laws for the Government of the Navy, and read prayers. At Meridian the battery on the shore fortifications fired a salute of 21 guns.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light E. N. E. breeze shifting to N. Cir. Cum. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy and warm. Light breeze from N. freshening towards end of watch. Send down topgallant yards at sunset. Barometer rising. Veered to 30 fathoms on starboard chain. Shore battery fired a salute of 21 guns at sunset, in honor of the President of Mexico being declared legally elected.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Misty. Light breeze from N. Cir. Cum. Nimb. clouds. Lightning and thunder to N. and E.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.				
A.M.														
1				N	2		29.88	81	85	83	bcl	Cir Cum	4	
2				"	2-3		29.87	"	84	82	"	"	5	
3				"	1-2		29.86	"	83	81	"	"	3	
4				"	2		"	"	82	"	bcl	"	"	
5				NW	"		29.88	"	"	80	bcl	"	"	
6				NNW	"		29.92	"	83	"	bc	"	2	
7				"	3		29.96	"	"	81	o	"	0	
8				N	5-7		30.00	79	80	79	oq	"	"	
9				"	4-6		"	78	81	"	"	"	"	
10				N by E	"		"	79	82	80	bcq	"	2	
11				NNW	"		"	80	83	"	"	"	"	
Noon				"	"		30.01	82	81	81	"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	' "
Longitude by D. R. at Noon	o	' "
Latitude by Observations at Noon ☉	o	' "
Longitude by Chronometer from Forenoon Observations ☉	o	' "
Current during the time	Knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ☉ observed at	o	" "
Water expended during the preceding 24 hours		260 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1367 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	120	" 1450 "

P.M.														
1				NNW	4-6		30.00	82	84	81	bcq	Cir Cum	4	
2				N by W	"		"	"	83	80	"	"	3	
3				"	"		29.96	81	81	79	oq	Cum Nimb	"	
4				"	"		"	80	"	78	bcq	"	1	
5				"	5-7		29.95	78	80	"	oq	"	0	
6				"	"		29.97	"	"	"	"	"	"	
7				"	"		29.99	77	"	"	"	"	"	
8				"	"		30.00	"	"	"	"	"	"	
9				"	4-6		30.02	"	79	"	bcq	"	4	
10				"	"		30.03	"	"	"	"	"	2	
11				"	"		30.04	"	"	77	"	"	3	
Mid.				"	"		30.02	"	"	"	oqr	"	0	

Longitude by Chronometer from Afternoon Observations ☉	o	' "
Longitude by Chronometer Observations *	o	' "
Variation of the Compass by Amplitude observed at Sunset	o	' "
Variation of the Compass by at	o	' "

under the command of Commander Winfield Scott Schley
Monday May 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and warm. Light breeze from N. Occasional thunder and lightning throughout watch.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy, with a light breeze from N. and W. Thunder and lightning first hour. During last hour wind increased to a strong breeze with squalls. Veered to 35 fathoms starboard chain.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Overcast. Hazy. Pleasant. Strong breeze with squalls from N. Cir. Cum. clouds. At 9.30, exercised at General Quarters.

Time Casting Loose.

At 9h[our] 49'[minutes] 44" [seconds] Secured Times.

Marine Guard 9h 30' 45"
Engineers Div. " 31' 20"
Paymaster Div. " 31' 22"
2nd Div. " 31' 22"
Surgeon's Div. " 31' 22"
1st Div. " 31' 40"
Navigator's Div. " 31' 24"
Powder Div. " 32' 10"

Powder Div. 9h 52' 03"
Engineers Div. " 50' 07"
Marine Guard " 54' 00"
Paymaster Div. " 51' 10"
2nd Div. " 53' 15"
Surgeon's Div. -----
1st Div. " 52' 50"
Navigator's Div. " 50' 47"

Crew engaged in getting ship ready for sea.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Cloudy cool. Strong breeze with squalls from N. and W. Bent fore try sail.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Overcast. Pleasant. Strong wind with squalls from N. by W. Bromwich are rising. Engaged in getting ship ready for sea.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast, squally. Wind strong from N. by W. Slight fall of rain last hour.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Vera Cruz, Mexico

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by sym- bols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther- m. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				N	4-6		30.02	77	80	78		oq	Cum Nimb	0	
2				"	"		30.01	"	"	"		"	"	"	
3				"	3-5		30.00	"	"	"		"	"	"	
4				"	2-4		29.99	"	"	"		"	"	"	
5				"	4		"	76	78	76		"	"	"	
6				NNW	3		30.03	77	79	"		bc	"	2	
7				"	"		30.02	"	78	75		"	"	7	
8				NW by W	2		30.03	78	80	77		"	"	8	
9				N by W	3		30.04	"	81	"		"	"	5	
10				"	4		30.06	80	82	80		"	"	3	
11				N	"		"	"	"	"		"	"	2	
Noon				NNE	"		30.05	"	83	79		"	"	"	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon			0	"
Longitude by D. R. at Noon			0	"
Latitude by Observations at Noon ☉			0	"
Longitude by Chronometer from Forenoon Observations ☉			0	"
Current during the time	knots			fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise			0	"
Variation of the Compass by Azimuth ☉ observed at			0	"
Water expended during the preceding 24 hours				252 gallons.
Water during the preceding 24 hours				"
Water remaining on hand fit for me at Noon				1115 "
Coal consumed during the preceding 24 hours	10	tons	1155	lbs.
Coal remaining on hand at Noon	110	"	295	"

P.M.															
1	2	4	NE 1/2 N	NNW	4		30.02	79	82	79	81	o	Cum Nimb	0	
2	7	6	"	NNE	"		30.00	78	"	"	"	ofe	"	"	
3	7	4	"	"	"		"	81	"	78	"	"	"	"	
4	7	4	"	"	"		"	80	"	79	"	"	"	"	
5	7	4	"	"	3		"	"	"	"	80	"	"	"	
6	7	4	"	NN by N	"		30.02	"	"	"	81	"	"	"	
7	7	6	"	"	"		"	"	"	"	"	"	"	"	
8	7	6	"	"	"		30.03	"	"	"	"	"	"	"	
9	7	6	"	"	"		30.07	79	"	78	"	"	"	"	
10	7	4	"	"	"		30.05	80	81	"	"	"	"	"	
11	5	0	"	"	"		"	"	"	"	80	"	"	"	
Mid.	5	0	"	NE	"		30.02	"	"	"	81	"	"	"	

Longitude by Chronometer from Afternoon Observations ☉			0	"
Longitude by Chronometer Observations *			0	"
Variation of the Compass by Amplitude observed at Sunset			0	"
Variation of the Compass by at			0	"

under the command of Commander Winfield Scott Schley
Tuesday May 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Pleasant. Strong wind from N., with squalls and drizzling rain first hour. Cum. Nimb. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy first half, clear and pleasant last half of watch. Hoisted smoke pipe, and at 6.30 started fires under six boilers. Making preparations for sea. Got up and bent mainsail. English steamer "Haytian" came up from Sacrificios and moored to buoy.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Cloudy. Moderate breeze from N. Secured boats for sea. Stowed sheet anchor below. Hove up stern anchor. At 11.30 got underway under steam. Draught of water. Foreword 13 feet 6 in. Amidships 14 feet 6 in. Aft 15 feet 8 in. Steam in six boilers. Average pressure 68 lbs. Temp of bunkers 96°.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast. Moderate breeze from N. N. W. first hour, and from N.N.E. remainder of watch. Secured both bower anchors fore sea, unbent bower chains and paid them below. Put on chafing gear. At 12.40 took departure. Pass Juan De Ulloa bore (pc) S. W. by S. distant three miles. At 1, set Fore try sail. At 1.30, took in Fore try sail, and put over patent log. Exchanged colors with an American schooner, heading to S. and W. Took in jib, Main try sail and spanker at 2.05. Steam in six boilers. Average pressure 68 lbs. Temp of bunkers 90°. Revolutions 51. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 6 P.M. Overcast. Light breeze from N. and E. Moderate swell from the N. Clouds passing to S.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Overcast. Pleasant. Fresh N. E. by E. breeze. Cum. Nimb. clouds. Barometer rising slowly. Steaming under six boilers. Average steam pressure 58 lbs. Temp of bunkers 90°. Revolutions 50. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast, cool. Moderate breeze from N. E. by E. Steaming with six boilers. At 10, stopped engines for 15 minutes to cool a hot bearing. Steaming slowly last two hours on account of hot bearing. Steam pressure 65 lbs. Revolutions 45. Temp of bunkers 95°.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	173	knots	4	fathoms.
Latitude by D. R. at Noon	21	°	09	' 00 "N
Longitude by D. R. at Noon	93	°	52	' 30 "W
Latitude by Observations at Noon ☉	21	°	21	' 14 "N
Longitude by Chronometer for Forenoon Observations ☉	93	°	43	' 30 "W
Current during the time	knots	4	fms. per hour, setting to the	N 37° E
Variation of the Compass by Amplitude ☉ observed at Sunrise	°		"	"
Variation of the Compass by Azimuth ☉ observed at 7.30 A.M. 6° E	°		"	"
Water expended during the preceding 24 hours				250 gallons.
Water Condensed during the preceding 24 hours				600 "
Water remaining on hand fit for me at Noon				1465 "
Coal consumed during the preceding 24 hours		tons		lbs.
Coal remaining on hand at Noon		"		"

Longitude by Chronometer from Afternoon Observations	⊙	0	1	11
Longitude by Chronometer Observations	*	0	1	11
Variation of the Compass by Amplitude	observed at Sunset	0	1	11
Variation of the Compass by	at	0	1	11

under the command of Commander Winfield Scott Schley
Wednesday May 9th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Light breeze from N. E. Steam in six boilers. Average pressure 65 lbs. Temp of bunkers 120°. Revolutions 51. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Overcast weather. Moderate breeze from N. E. Sea smooth. Clouds passing to the W. Steaming with six boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Pleasant. Light N. E. breeze. Cir.Cum. clouds. Barometer falling slowly. At 9.15 inspected at quarters. Exercised 1st and 2nd Divisions at great guns, Marine Guard at small arms. Steaming under six boilers. Average steam pressure 55 lbs. Temp of bunkers 106°. Revolutions 48. Distilling. At Merid, hauled in patent log, showing 177 1/4 miles, reset and put overboard again.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E. N. E. Steaming with four boilers. Bent light sails. Average pressure 50 lbs. Temp of bunkers 98°. Revolutions 36.5.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Cloudy and pleasant. Light E[aster]ly breeze. At 5.50 took in all fore and after sail. Barometer rising slowly. About 5 passed a number of greasy patches on the surface of the water, and observed at the same time a strong smell of petroleum. Steaming one half power. Average steam pressure 45 lbs. Barometer 35. Temp of bunkers 90°. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 6 to 8 P.M. Cool and pleasant. Fresh breeze from the E. Set fore and aft sail at 7. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light N. by E. breeze. Cir. Cum. clouds. At 9.30 took in fore and aft sail. At 9.40 changed course to N. E. by N. Lightning to N. and E. Steam in four boilers. Average steam pressure 39 lbs. Temp of bunkers 105°. Revolutions 35.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	K n of s.	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.				State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.				
				Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.										
A.M.																					
1	5	0	NE by N	ENE	3		29.99	78	79	76	80	oc	Cum Nimb	0	S	Jib, .F.T.M. staysail					
2	5	6	"	"	"		29.96	"	"	"	"	bcl	"	5	"	Main try sail and					
3	6	0	"	"	4		29.95	"	"	"	79	"	"	4	"	spanker					
4	6	4	"	"	"		"	"	"	"	"	bc	"	3	"	"					
5	7	0	"	E by N	"		"	"	"	"	80	o	"	0	"	"					
6	5 1	6 2	NE 1/2 N	"	"		"	77	"	"	81	bc	"	2	M	"					
7	6	6	"	"	"		30.00	"	"	77	79	o	"	0	"	"					
8	6	4	"	E	4-5		"	"	"	"	"	"	"	"	"	"					
9	7	0	"	"	"		"	"	"	"	"	bc	Cum	2	"	Fore and aft sail.					
10	7	0	NNE	"	"		"	"	"	"	"	"	"	"	"	Plain sail to topgal-					
11	7	4	N by E	E by N	4	1	29.98	"	"	76	78	"	"	4	"	-lant sails.					
Noon	6	6	N by E 1/2 E	"	"	1	29.97	"	"	"	"	"	"	5	"	Mainsail.					
Distance run by Log since preceding Noon												145 knots		2 fathoms.							
Latitude by D. R. at Noon												23 °		07 '		00 "		"N			
Longitude by D. R. at Noon												92 °		00 '		30 "		"W			
Latitude by Observations at Noon ☉												23 °		20 '		44 "		"N			
Longitude by Chronometer from Forenoon Observations ☉												92 °		08 '		00 "		"W			
Current during the time				Knots 5		fms. per hour, setting to the				N 30° W											
Variation of the Compass by Amplitude ☉ observed at Sunrise												°		"		"		"			
Variation of the Compass by Azimuth ☉ observed at 7.15 A.M.												6 °		"		"		" E			
Water expended during the preceding 24 hours														244 gallons.							
Water r				Condensed		during the preceding 24 hours				400				"							
Water remaining on hand fit for me at Noon														1621				"			
Coal consumed during the preceding 24 hours												4		tons		2195		lbs.			
Coal remaining on hand at Noon												93		"		340		"			
P.M.																					
1	5	6	NNE	E	4	1	29.96	77	79	76	78	bc	Cir Str Cum	5	M						
2	5	0	NE by N	E by S	"	"	29.95	"	"	"	77	"	"	2	"						
3	5	0	NNE	E	"	"	29.94	76	78	"	"	"	"	5	"	All plain sail and					
4	5	0	NE by N	ESE	"	"	29.92	"	"	"	"	"	"	6	"	royals and F. jib.					
5	5	0	"	E by S	3	1/2	29.94	"	"	"	"	o	Cum Nimb Str	0	"	"					
6	5	4	N by E 1/2 E	E	4	"	29.95	"	77	75	"	bc	Cum Nimb	4	"	"					
7	6	4	"	"	5	1/4	"	"	"	76	76	"	"	1	"	Single reefed topsails					
8	7	6	"	"	5-6	"	29.99	"	"	"	"	"	"	2	"	topgallant sails and					
9	7	4	NNE	"	4-5	1/2	29.97	"	"	75	"	"	Cum	7	"	spanker.					
10	7	4	N by E 3/4 E	"	5	"	29.99	75	"	74	"	"	"	8	"	"					
11	7	4	"	"	"	"	"	"	"	"	"	"	Cum Nimb	5	"	"					
Mid.	7	2	NNE	"	4	"	29.98	"	"	"	"	"	"	"	"						
Longitude by Chronometer from Afternoon Observations ☉												°		'		"					
Longitude by Chronometer Observations												*		°		'		"			
Variation of the Compass by Amplitude												observed at Sunset				°		'		"	
Variation of the Compass by												at				°		'		"	

under the command of Commander Winfield Scott Schley
Thursday May 10th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Moderate breeze from E. N. E. Lightning to E. Steaming with four boilers. By order of Commanding Officer, John Hartigan (O.S.2.C.) Patrick Punch (O.S.2.C.) Francis Shields (O.S.2.C) Patrick Duffy (1.C.B.) each stood two hours extra lookout. Average steam 60 lbs. Temp of bunkers 96°. Revolutions 37.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Overcast. Pleasant. Moderate breeze from N. and E. About 5 sighted a schooner heading to S. and W. At 5.50 changed course to N.E. 3/4 E. Steaming half power. Average pressure 47 lbs. Temp of bunkers 90°. Revolutions 40. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breezes from E. At 9 made sail to topsails and topgallant sails. Disconnected engines. At 9.50 set mainsail. At 11.30 set gaff topsail. Ship steady. Distilling. Sea moderate. Patent log read 156 3/4 miles.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Moderate E[aster]ly breeze. Cir. Cum. Str. clouds. Barometer falling slowly. Moderates sea. Fires banked in two boilers. Distilling. Average steam pressure 35 lbs. Temp of bunkers 94°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Cloudy and cool. Moderate breeze from E. Barometer rising slowly. Fires banked in two boilers. Pressure 35 lbs. Temp of bunkers 88°. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Cloudy and pleasant. Moderate breeze increasing to fresh breeze from E. At 6.15 took one reef in topsails and furled gaff topsail. Fires banked in two boilers. Average steam 35 lbs. Temp of bunkers 88°. Distilling. Barometer rising.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Fresh breeze from E. Clouds passing to the W. Moderate sea. Ship steady. Distilling.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

			WINDS.				BAROMETER.		TEMPERATURE.										Record of the sail the vessel is under at end of watch.				
Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Therm. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.								
A, M.																							
1	6	6	NNE 3/4 E	E by S	3-4	1/2	29.98	74	76	74	77	bc	Cir Cum	6	M		F. and M. Sail, single						
2	7	0	NNE 1/2 E	"	"	"	29.96	"	"	"	"	"	"	7	"		reefed topsail, T.G. sails						
3	7	0	NNE	E	4	"	29.98	"	"	"	"	"	"	8	"		jib. F.T. M. stay sail						
4	6	4	N by E 1/2 E	"	3	"	"	"	"	"	"	"	"	7	"		& spanker.						
5	6	4	NNE	"	"	"	29.99	"	"	"	"	"	Cum Nimb	6	"								
6	5	2	S by E	E by S	"	3/4	29.99	"	"	"	76	"	"	7	"								
7	5	0	"	"	"	1/2	"	"	"	"	"	"	"	5	"		All plain sail, except						
8	6	2	"	"	"	0	30.01	"	77	75	77	"	"	4	"		royals, jib & gaff						
9	6	0	S by E 1/2 E	"	3-4	1/4	"	76	"	"	"	"	"	3	"		topsail.						
10	6	4	S by E 3/4 E	"	"	1/2	30.03	"	"	"	"	"	"	4	"		"						
11	5	6	S by E 1/2 E	"	"	"	30.04	77	79	76	"	"	"	7	"		"						
Noon	3 2	4 4	N by E 1/4 E	"	"	"	"	"	"	"	"	"	"	6	"		F.T. M. staysail.						
Distance run by Log since preceding Noon												149 knots		0 fathoms.									
Latitude by D. R. at Noon												24	°	22	'	00	"N						
Longitude by D. R. at Noon												91	°	09	'	00	"W						
Latitude by Observations at Noon ☉												24	°	29	'	27	"N						
Longitude by Chronometer from Forenoon Observations ☉												91	°	20	'	00	"W						
Current during the time				knots	4	fms. per hour, setting to the				N 53° W													
Variation of the Compass by Amplitude ☉ observed at Sunrise													°		"		"						
Variation of the Compass by Azimuth ☉ observed at 8 A.M.												6	°		"		"E						
Water expended during the preceding 24 hours														250 gallons.									
Water Condensed				during the preceding 24 hours										200 "									
Water remaining on hand fit for me at Noon														1571 "									
Coal consumed during the preceding 24 hours												1	tons	1915	lbs.								
Coal remaining on hand at Noon												91	"	665	"								
P, M																							
1	6	4	N by E	E	3	1/4	30.04	77	79	76	77	bc	Cir Cum	5	M								
2	7	0	N by E 1/2 E	"	"	"	"	76	"	"	"	"	"	4	"		"						
3	8	0	N by E 3/4 E	"	"	"	29.99	"	78	"	"	"	"	"	"		"						
4	8	0	NNE	"	"	0	29.97	"	"	"	76	"	"	5	"		"						
5	7	4	N by E 1/2 E	"	"	"	29.96	"	77	"	"	"	"	4	"		"						
6	4 1	0 0	N by E 1/4 E	"	"	1/4	29.98	"	"	"	"	"	"	"	"		"						
7	5	0	SSE	"	4	3/4	29.96	"	"	75	77	"	Cum Nimb	5	"		Single reefed topsail						
8	5	0	S by E 1/2 E	"	"	"	29.97	"	"	74	76	"	"	4	"		courses, jib, F.T. M.						
9	4	6	S by E 1/4 E	E by S	"	"	29.98	"	78	"	"	"	"	5	"		staysail, spanker						
10	4	4	"	"	3-5	"	30.00	"	"	76	"	"	"	6	"		"						
11	5	0	S by E 1/2 E	"	"	"	29.98	"	77	"	77	"	"	4	"		"						
Mid.	4	0	"	"	"	"	29.97	"	"	"	"	"	"	3	"		"						
Longitude by Chronometer from Afternoon Observations ☉													°		'		"						
Longitude by Chronometer Observations												*			°		'		"				
Variation of the Compass by Amplitude												observed at Sunset					°		'		"		
Variation of the Compass by												at					°		'		"		

under the command of Commander Winfield Scott Schley
Friday May 11th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Moderate E[aster]ly breeze. Cir. Cum. clouds. Bright starlight. Moderates sea. Fires banked in two boilers. Stopped distilling at 1.50. Average steam pressure 18 lbs. Temp of bunkers 88°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant, cool. Moderate breeze from E. At 5 wore ship. At 6 shook reefs out of topsails. Fires banked in two boilers. Average pressure 25 lbs. Temp of bunkers 86°. Commenced distilling at 6.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from S. and E. At 9.15 inspected at quarters, afterwards exercised at fire quarters. Divisions reported ready as follows, Viz. 1st Div. 3 m 55"[seconds]. Engineers Div. 2 m. Powder Div. 2 m 15". Surgeon's Div and Marine Guard 2 m 05". Secured in 2 m 20". At 11.30 called all hands and tacked ship, time 8 m. Fires banked in two boilers. Average steam pressure 35 lbs. Temp of bunkers 88°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Fresh breeze from E. At 3 banked fires. Sea moderate. Ship steady.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Moderate E[aster]ly breeze. Cir. Cum. clouds. Moderate sea. At 5.30 attempted to tack ship, wind hauling two points, missed stays. At 5.45 tacked ship, time 6 m to S.

(Signed) Richard G. Davenport
Lieut.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from E. At 6.30 reefed topsails. At 6.40 took in topgallant sails.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast but pleasant, with wind fresh in squalls from E. by S. At 11.45 wore ship.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

		WINDS.					BAROMETER.		TEMPERATURE.				Forms of Clouds, by symbols.		State of the Weather by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.			
Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Therm. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.												
A.M.																								
1	5	0	NNE	E	3	1	29.95	77	78	77	77	oc	Cum Nimb	0	m	Single reefed topsails								
2	4	0	NNE 1/2 E	"	2-3	1 1/4	"	"	"	"	"	bcl	"	1	"	Courses T.F.T.M.S.S.								
3	4	6	NE by N	E by S	3	1	29.97	76	"	"	"	"	"	3	"									
4	5	0	NE 1/2 N	"	3-4	"	29.95	"	"	"	"	"	"	2	"									
5	4	0	"	ESE 1/2 E	4	2	29.92	77	"	"	"	bc	"	1	"									
6	5	0	"	"	4	1/2	29.94	"	"	"	"	"	"	0	"									
7	5	0	S 1/2 E	"	4-6	"	29.96	"	"	"	"	"	"	3	"									
8	4	0	NE 1/2 E	se by e 1/2 e	"	1/4	29.94	78	79	78	"	"	"	4	"									
9	5	6	NE by E	SE by E	5	"	"	"	"	"	78	"	"	3	"	Topsails, Courses &								
10	6	4	"	"	4	1/2	29.93	"	"	"	"	"	"	2	"	F.T.M. Staysail.								
11	6	4	"	"	5	"	"	"	80	"	"	"	Cir Cum Nimb	"	"	F.T.G. sail.								
Noon	7	0	"	"	"	1/4	29.92	"	"	"	"	oc	"	0	"	"								
Distance run by Log since preceding Noon												132 knots		6 fathoms.										
Latitude by D. R. at Noon												25 °	14 '	00 "	"N									
Longitude by D. R. at Noon												90 °	20 '	00 "	"W									
Latitude by Observations at Noon ☉												25 °	19 '	00 "	"N									
Longitude by Chronometer from Forenoon Observations ☉												90 °	19 '	00 "	"W									
Current during the time												knots	2	fms. per hour, setting to the		N								
Variation of the Compass by Amplitude ☉ observed at Sunrise												°	"	"										
Variation of the Compass by Azimuth ☉ observed at 8 A.M.												6 °	"	"E										
Water expended during the preceding 24 hours												244 gallons.												
Water during the preceding 24 hours												"												
Water remaining on hand fit for me at Noon												1327 "												
Coal consumed during the preceding 24 hours												5 tons	2195 lbs.											
Coal remaining on hand at Noon												85 "	710 "											
P. M.																								
1	7	2	NE 1/4 E	SSE	5	1/4	29.92	77	79	78	76	o	Cir Cum Nimb	0	M	Topsails & F.T.M.S.S. [fore top main stay sail]								
2	7	0	NE 1/2 E	"	"	"	29.90	"	"	"	"	"	"	"	"									
3	4	0	NE	"	2	"	"	"	"	"	"	orlb	"	"	"									
4	2	0	NE by N	SE	3	0	29.92	"	"	"	"	"	"	"	"									
5	4	4	E	W by S	"	"	"	75	73	72	75	orfl	"	"	"									
6	3	0	"	"	2	"	"	"	"	"	"	orf	"	"	"	Steaming 6.B.								
7	10	0	"	"	3	"	29.90	76	75	74	76	"	"	"	"									
8	8	6	"	NE by E	4-6	"	29.92	77	74	"	77	"	"	"	"									
9	8	0	"	ENE	5-7	"	29.93	76	"	"	"	oql	"	"	"									
10	7	2	"	NE	"	"	"	75	"	"	76	"	"	"	"									
11	7	4	"	E	"	"	29.95	"	75	"	"	"	"	"	"									
Mid.	7	4	"	"	"	"	29.92	"	76	"	"	"	"	"	"									
Longitude by Chronometer from Afternoon Observations ☉												°	'	"										
Longitude by Chronometer Observations												*	°	'	"									
Variation of the Compass by Amplitude												observed at Sunset		°	'	"								
Variation of the Compass by												at		°	'	"								

under the command of Commander Winfield Scott Schley , U. S. Navy.
Saturday May 12th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first part of watch, cloudy latter part. Fresh breeze from E. Squally. Sheet and forked lightning to the S. and W. Clouds passing from S. W. to N.E. Barometer unsteady. Furled jib.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Fresh E[aster]ly breeze. Cum. Nimb. clouds passing to N. and S. and E. At 5 shook reefs out of topsails. At 5.15 set spanker. At 6 wore ship to S. At 6.20 set main topgallant sale and jib. At 7.10 wore ship to N. and E.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Cloudy, with fresh breeze from S. E. by E. At 10.15 set fore topgallant sail. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast. Rainy last two hours, with lightning and thunder. Squally. At 1.45 took in mainsail. Bent fore storm staysail and storm mizzen. Hoisted smoke pipe. At 2 started fire in six boilers. Took in topgallant sails at 2.30, spanker and foresail at 2.45, and jib at 2.50. At 4 braced in fore and main yards. Wind suddenly shifted to W. Barometer rising slowly last part.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 6 P.M. Thick foggy weather. Heavy rain, with chain lightning, thunder. Wind moderate from S. W. Squally. At 5.50 started engine. Took in and furled topsails and topmast staysail. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Overcast. Rainy. Thick. Thunder and lightning. Squalls passing ahead from N. and E. Steaming six boilers. Average steam 60 lbs. Revolutions 50. Barometer rising.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast, rainy, squally. Very fresh breeze from N. and E. Steaming with six boilers. Lightning to S. and E. Barometer unsteady. At 9 sent down topgallant yards. Average pressure 65 lbs. Temp of bunkers 110°. Revolutions 46.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	K n o t s	F a t h o m s	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	Stat e of the Sea	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	6	4	E	E	3-5		29.90	76	77	76	76	orqn	Cum Nimb	0	P	
2	5	0	"	E by S	5-7		29.89	"	"	"	"	orqn	"	"	"	
3	5	4	"	"	"		29.88	"	"	"	78	"	"	"	"	
4	5	4	"	"	4-6		29.90	"	"	"	"	"	"	"	"	
5	6	6	"	"	5		29.91	"	76	73	82	org	"	"	"	
6	7	0	"	"	5-7		29.93	"	"	74	"	"	"	"	"	
7	5	4	"	"	"		29.95	"	"	76	"	"	"	"	"	
8	5	6	"	"	4		29.93	"	"	"	"	bc	"	2	"	
9	6	0	"	"	5-7		"	77	79	77	"	"	"	3	"	
10	6	0	"	"	"		29.95	76	80	78	81	"	"	2	"	
11	6	4	"	ESE	"		29.96	"	78	76	80	"	Cir Cum Nimb	1	"	F.T.M.S.S. F.T. Sail
Noon	6	4	"	"	4-6		"	77	79	77	79	"	"	3	"	M.T.Sail & spanker.

Distance run by Log since preceding Noon	150 knots	4 fathoms.
Latitude by D. R. at Noon	25 °	14 ' 30 "N
Longitude by D. R. at Noon	87 °	42 ' 00 "W
Latitude by Observations at Noon ☉	25 °	40 ' 00 "N
Longitude by Chronometer from Forenoon Observations ☉	87 °	42 ' 00 "W
Current during the time	knots	fms. per hour, setting to the N
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at 8 A.M.	6 °	" "E
Water expended during the preceding 24 hours		244 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1083 "
Coal consumed during the preceding 24 hours	13 tons	1395 lbs.
Coal remaining on hand at Noon	71 "	1555 "

P.M.																
1	7	0	E by S	ESE	5		29.94	78	80	77	78	bc	Cir Cum Nimb	4	R	
2	7	2	"	E by S	4		"	"	81	"	79	"	"	7	"	
3	8	0	"	E	4-6		29.95	79	80	78	80	"	"	2	"	
4	7	4	"	E by N	"		"	78	"	79	"	bcq	"	1	"	
5	7	4	"	"	5-6		29.93	77	79	77	"	"	"	2	"	
6	6	4	"	ESE	5-7		"	"	"	"	"	bcqf	"	1	"	
7	5	6	"	E by N	6-8		29.95	"	"	"	"	"	"	"	"	
8	5	6	"	"	"		29.97	79	77	"	"	oqr	"	0	"	
9	4	0	"	"	5-7		29.99	78	"	76	"	bcq	"	1	"	
10	5	0	"	"	"		"	"	"	"	"	bcql	"	6	"	Steaming six boilers
11	5	0	"	"	"		29.97	"	"	"	"	bcq	"	"	"	
Mid.	5	0	"	"	"		"	77	"	"	"	"	"	7	"	

Longitude by Chronometer from Afternoon Observations ☉	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley
Sunday May 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy. Squally. Strong wind from E first hour, hauling to E. by S. Lightning first two hours. Steam in six boilers. Average pressure 55 lbs. Temp of bunkers 98°. Revolutions 45.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Strong squalls with heavy showers of rain. Wind from E. by S. Steaming with six boilers. Steam pressure 59 lbs. Revolutions 45. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Strong E. S. E. wind. Cum. Nimb. clouds passing to S. At 9 sent down topgallant masts. At 9.30 set fore topmast staysails and spanker. At 9.45 set fore and main try sails. Steaming under six boilers. Average pressure 65 lbs. Revolutions 47. Temp of bunkers 100°. Passed sail, and exchanged colors with an American side wheel steamer bound to N. and W.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant first part, squally last hour. Fresh E[aster]ly Breeze. At 12.05 changed course to E. by S. Took in fore and aft sail. Steaming with six boilers. Steam pressure 55 lbs. Temp oh boilers 104°. Revolutions 49.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Cloudy and pleasant. Strong breeze in squalls from E. by N. first hour, last hour from E. S. E. Passing showers. Steam in six boilers. Average pressure 58 lbs. Temp oh bunkers 104°. Revolutions 49. Barometer rising.

(Signed) Sam. C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy and squally. Strong wind from E. Rough sea. Ship pitching moderately but dry. Strong squalls with light showers of rain. Steam pressure 59 lbs. Revolutions 49. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy and rainy first, and clear last part of watch. Cir. Cum. Nimb. clouds passing to W. Moderate gale from E. with heavy squalls. Steaming under six boilers. Average pressure 63 lbs. Revolutions 44. Temp of bunkers 102°.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour.	K n o t s	F athoms	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	5	2	E by S	E	5		29.96	78	79	78	78	bc	Cun Nimb	7	R	
2	6	0	"	"	3		29.95	"	78	76	"	"	"	8	"	
3	6	2	"	E by S	"		"	79	79	77	"	"	"	9	"	
4	6	0	"	ESE	"		29.94	80	80	78	"	"	"	6	"	
5	4	4	"	E by N	3-4		29.93	"	77	"	80	bcp	Nimb Str Cir Cum	2	H.C	
6	4	4	"	E by S	"		29.98	"	"	"	"	bc	"	4	"	
7	3	0	"	"	5		29.97	82	79	80	81	"	"	7	"	
8	2	4	"	"	5-6		29.99	"	"	"	"	"	Cir Cum Cir Cum Nimb	8	"	
9	2	4	"	E by N	5		"	"	"	"	"	"	"	12	"	
10	2	4	"	"	3-4		30.00	"	"	"	"	"	"	4	H	
11	3	6	"	E	"		"	84	"	81	"	"	Cir Cum	5	"	
Noon	4	0	"	"	"		"	"	80	"	"	"	"	4	"	
Distance run by Log since preceding Noon										125 knots			0 fathoms.			
Latitude by D. R. at Noon										24 °	58 '	00 "	"N			
Longitude by D. R. at Noon										85 °	32 '	00 "	"W			
Latitude by Observations at Noon ☉										24 °	49 '	00 "	"N			
Longitude by Chronometer from Forenoon Observations ☉										85 °	36 '	00 "	"W			
Current during the time						knots 4	fms. per hour, setting to the	S 21° W.								
Variation of the Compass by Amplitude ☉ observed at Sunrise												°	"	"		
Variation of the Compass by Azimuth ☉ observed at												°	"	"		
Water expended during the preceding 24 hours														244 gallons.		
Water							during the preceding 24 hours							"		
Water remaining on hand fit for me at Noon														839 "		
Coal consumed during the preceding 24 hours												14 tons	495 lbs.			
Coal remaining on hand at Noon												57 "	1660 "			
P.M.																
1	1 2	2 0	e by s E	E	3-6		30.02	80	83	80	82	bc	Cir Cum	5	R	
2	2	0	"	"	4-6		29.99	81	"	81	"	"	"	"	"	Steaming 6 boilers.
3	3	6	"	"	"		30.00	80	82	80	"	"	Cir Cum Nimb	"	"	"
4	3	6	"	"	"		30.01	"	"	"	"	"	"	"	"	"
5	4	0	"	"	5		30.00	"	"	"	"	"	Cum Nimb	6	"	"
6	5	0	"	"	"		30.00	"	"	"	"	"	"	4	"	"
7	5	0	"	"	5-6		30.01	"	81	78	"	"	"	9	"	"
8	5	0	"	"	"		"	"	"	"	"	"	"	"	"	"
9	5	6	"	"	"		30.03	"	"	"	81	bcq	"	5	"	"
10	4	6	"	"	5-7		30.07	"	"	"	80	"	"	0	"	"
11	5	0	"	"	"		30.05	79	80	"	"	"	"	7	"	"
Mid.	4	0	"	"	3-7		"	"	"	"	"	"	"	"	"	"
Longitude by Chronometer from Afternoon Observations ☉												°	'	"		
Longitude by Chronometer Observations										*		°	'	"		
Variation of the Compass by Amplitude										observed at Sunset		°	'	"		
Variation of the Compass by										at		°	'	"		

under the command of Commander Winfield Scott Schley
Monday May 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Squally first part, afterwards clear and pleasant. Moderate breeze from E. Steaming with six boilers. Average pressure 47 lbs. Temp of bunkers 110°. Revolutions 43. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from E. by S. Steaming with six boilers. Heavy cross sea, ship pitching heavily. Average pressure 57 lbs. Temp of bunkers 110°. Revolutions 38. Rigged in flying jibboom.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Cloudy, warm and pleasant. Fresh breeze from E. Occasional strong squalls. Heavy sea. Steaming slowly until 10.30 when engines were started ahead at 45 revolutions. Ship pitching considerably. Maximum pitch 15°. Scud passing overhead to W. One sail in sight at end of watch, standing to N. and E. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Strong E[aster]ly wind, with squalls. Cir. Cum. Nimb. clouds passing to W. At 12.20 changed course to E. Banked fire in two boilers. Slowed down. At 3.10 spread buyers in two boilers. Barometer rising. Steaming under six boilers. Average pressure 45 lbs. Temp of bunkers 124°. Revolutions 42.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Clear and pleasant. Fresh breeze, with squalls from E. Steaming with six boilers.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Clear and pleasant. Strong breeze from E. Squally. Steaming with six boilers. Average pressure 58 lbs. Temp of bunkers 124°. Revolutions 45. Barometer rising.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Cloudy and squally. Strong breeze from E. Rough sea Ship pitching moderately. Barometer study. Steam 64 lbs. Revolutions 45.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Steaming 6 boilers.

P,M

Steaming six boilers.

Longitude by Chronometer from Afternoon Observations	⊙	0	1	18
Longitude by Chronometer Observations	*	0	1	18
Variation of the Compass by Amplitude	observed at Sunset	0	1	18
Variation of the Compass by	at	0	1	18

under the command of Commander Winfield Scott Schley
Tuesday May 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Strong E[aster]ly wind, with heavy rain squalls. Cir. Cum. Nimb. clouds passing to W. Barometer falling. Steaming under six boilers. Average pressure 35 lbs. Temp of bunkers 124°. Revolutions 45.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy, cool. Fresh breeze, with frequent rain squalls from E. by N. Steaming with six boilers. At 8 changed course to E. 1/4 N. Two sail and a steamer in sight. Average pressure 59 lbs. Temp of bunkers 122°. Revolutions 44.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy and cool. Strong wind from E. by N. blowing in squalls. Steaming with six boilers. Course changed to E. N. E. At 11.25. A steamer in sight. Average pressure 65 lbs. Temp of bunkers 120°. Revolutions 47.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and cool. Fresh breeze from E. blowing occasional strong squalls accompanied by rain. At 12.30 changed course to E, and at 12.45 to E. 1/2 N. At 12.30 hove deep sea lead, the line fouled the screw and was cut at 40 fathoms losing and 80 lb lead. Got another cast in 30 fathoms of water, bottom shells and sand. At 2 passed a steamer standing to the W. At 3.30 sighted the same steamer standing to the E. At 3.200 or of course on account of discolored water. At 3.40 changed course to E. Rough sea. Pitching moderately. At end of watch one sail and a steamer in sight.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy. Fresh E. by N. Wind, with heavy rain squalls. Cir. Cum. Nimb. clouds passing to the N. and W. Steaming under six boilers. Average pressure 50 lbs. Revolutions 47. Temp of bunkers 108°. At 6 stopped engine long enough to get cast of lead in 15 fathoms water, fine sand, black specks.

(Signed) Richard G. Davenport
Lieut.

From 6 to 8 P.M. Cloudy. Fresh breeze with frequent rain squalls from E. Steaming with six boilers. Took cast of deep sea lead every hour. Changed course to E. 1/2 S. at 7. Average pressure 58 lbs. Temp of bunkers 120°. Revolutions 46.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and pleasant. Fresh breeze from E. by N, strong in squalls. At 11 sighted Sand Key Light, bearing (pc) E. by N. Took soundings every hour, depth varying from 35 to 47 fathoms, bottom white sand and soft shell. Steaming six boilers. Average pressure 63 lbs. Temp of bunkers 120°. Revolutions 46. At end of watch, Sand Key Light bore (pc) E. N. E.

(Signed) Sam area C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Key West, Florida

Hour.	knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A. M.																
1	4	0	e 1/4 n e by n	E by N	4-6		30.02	77	79	77	78	orq	Cum Nimb	0		
2	2	0		"	"		"	"	"	"	"	"	"	"		
3			Standing in to Key West Florida	"	4		30.03	"	"	"	"	bcq	"	2		
4				"	3-4		"	"	"	"	"	"	"	3		
5				NE	"		30.01	"	77	76	"	oq	"	0		
6			At Anchor	"	"		30.04	76	"	"	"	bcq	"	1		
7				"	3-5		"	"	"	"	"	"	"	"		
8				ENE	3-4		30.05	"	78	"	"	"	"	"		
9				"	4		"	"	"	"	"	o	"	0		
10				"	"		"	"	"	"	"	"	"	"		
11				"	"		30.06	"	"	"	"	"	"	"		
No on				NE	"		"	"	"	79	77	bc	"	1		

Distance run by Log since preceding Noon knots fathoms. "

Latitude by D. R. at Noon " "

Longitude by D. R. at Noon " "

Latitude by Observations at Noon " "

Longitude by Chronometer from Forenoon Observations " "

Current during the knots fms. per hour, setting to the

Variation of the Compass by Amplitude " observed at Sunrise " "

Variation of the Compass by Azimuth " observed at " "

Water expended during the preceding 24 hours 244 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 351 "

Coal consumed during the preceding 24 hours 7 tons 1258 lbs.

Coal remaining on hand at Noon 33 " 2200 "

P.M.																
1				NE	4		30.06	76	79	76		o	Cum Nimb	0		
2				"	"		30.02	"	78	"		"	"	"		
3				"	"		30.01	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				ENE	3-5		30.00	"	"	"		oqr	"	"		
6				NE by E	"		"	"	"	"		"	"	"		
7				ENE	"		30.02	"	76	74		"	"	"		
8				"	"		"	"	77	"		bcqp	"	2		
9				"	"		30.03	"	76	"		opq	"	"		
10				"	"		30.01	"	75	"		"	"	0		
11				NE	"		"	"	"	"		bcrq	"	5		
Mid.				"	3		30.00	"	"	"		bcpq	"	4		

Longitude by Chronometer from Afternoon Observations " "

Longitude by Chronometer Observations *

Variation of the Compass by Amplitude observed at Sunset " "

Variation of the Compass by at " "

under the command of Commander Winfield Scott Schley
Wednesday May 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Thick squally weather. Moderate breeze from E. blowing frequent squalls with rain. Standing towards Sand Key Light. At 2.15 made Key West Light bearing N. E. 1/2 E. Bent both bower chains. At 3.30 anchored in 5 fathoms water. Sand Key Light bearing S. by E. 1/2 E. Key West Light N. E. by E. Gave Richard Jones (W.C.) four hours extra watch for neglect of duty. Banked fires.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Cool. Fresh N. E. wind with squalls. Cum. Nimb. clouds passing to W. At 5.30 pilot came aboard. At 7.40 sent up top gallant masts and rigged out flying jib boom.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Overcast, cool. Fresh breeze from N. and E. At 9.15 underway and stood in towards Government Wharf. At 10.30 came to anchor with 30 fathoms starboard chain. Draught of ship. Forward 13 feet 4 in. Amidships 14 feet 5 in. Aft 15 feet 6 in.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast, cool. Fresh N. E[aster]ly breeze. At 3.15 Revenue Cutter "Crawford" got underway and made fast to wharf. Fires banked in four boilers. Average pressure 50 lbs. Temp of bunkers 120°. George W. Griswold left the ship.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Overcast, squally, with passing showers. Fires banked in four boilers. Average pressure 30 lbs. Temp of bunkers 120°.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast first part, latter part clear and cool. Moderate breeze from E. N. E. Veered to 30 fathoms at water's edge on starboard chain. Banked fires in four boilers. Average pressure of 50 lbs.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Key West, Florida

Hour.	Kno ts.	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.
			Direction.	Force.	Leeway.	Height in inches.	Ther. air'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.														
1			NNE	4-6		29.98	75	75	74		oqp	Cum Nimb	0	
2			"	"		29.96	"	"	"		"	"	"	
3			"	"		29.95	"	"	"		"	"	"	
4			"	"		29.94	"	"	73		"	"	"	
5			"	3-5		"	"	"	"		bcqp	"	1	
6			"	5-6		29.95	"	"	74		bcq	"	2	
7			"	"		"	"	76	"		oqp	"	0	
8			N by E	"		"	74	"	"		"	"	"	
9			"	4		"	"	75	"		"	"	"	
10			N	"		29.94	"	76	"		oq	"	"	
11			N by E	"		29.92	75	77	75		"	"	"	
Noon			N	"		29.91	"	"	76		bcq	"	1	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		244 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		107 "
Coal consumed during the preceding 24 hours	2 tons	1075 lbs.
Coal remaining on hand at Noon	31 "	1125 "

P.M.															
1			N	4		29.91	77	79	77		bcq	Cum Nimb	1		
2			"	"		29.89	"	"	"		"	"	3		
3			"	3-4		29.88	"	"	76		"	"	5		
4			NNW	"		29.87	"	78	"		"	"	7		
5			"	4		29.85	"	"	"		"	"	8		
6			"	3-4		29.86	"	"	"		bc	"	6		
7			"	"		29.87	"	"	"		"	"	2		
8			"	"		29.88	76	77	75		"	"	8		
9			"	2-3		"	"	"	"		bcp	"	1		
10			"	"		"	"	78	76		"	"	0		
11			"	2		"	"	"	"		"	"	5		
Mid.			"	"		"	"	"	"		"	"	4		

Longitude by Chronometer from Afternoon Observations ☉	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Tuesday May 17th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cool. Fresh breeze from N. N. E. with frequent rain squalls. Swung to ebb tide at 1.20. Fires banked in four boilers. Average steam pressure 30 lbs. Temp of bunkers 127°.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Overcast and squally. Fresh breeze from N. N. E. Occasional squalls, with light showers of rain. Steamer "Margaret" arrived from Havana. Broke out hold and prepared for coaling. Slack water at 8.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast and squally. Fresh breeze from N. and E. At 1.45 let go port anchor under foot. Engaged in setting up fore and aft stays and overhauling standing rigging. Riding to flood tide. Fires banked in four boilers. Average steam pressure 62 lbs. Temp of bunkers 106°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from N. hauling to W. At 2.20 hove up anchor and steamed in alongside Government Wharf, letting go port anchor and veering 50 fathoms of port chain. Banked fires. Engaged in overhauling rigging aloft and stowing hold.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Fresh breeze from N. N. W. Received in Paymaster Department 4 barrels of beef, 10 of pork, 4 of butter, 4 of molasses, 3 of vinegar, and 30 boxes of preserved meat. Send a liberty party of 27 men ashore until 6 A.M. tomorrow. Fires banked in four boilers. Average steam pressure 25 lbs.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Warm and pleasant. Light breeze from N. N. W. Barometer steady. Passing showers first part watch.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Key West, Florida

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				S by E	2		29.88	76	78	76		om	Cum Nimb	0	
2				"	"		"	"	"	"		ori	"	"	
3				"	"		"	"	"	"		bcpl	"	8	
4				"	"		"	75	75	"		bcl	"	9	
5				S	1		29.90	"	77	75		bc	"	8	
6				"	2		29.93	76	78	76		"	Cir Cum	"	
7				"	"		29.95	77	79	77		"	"	"	
8				"	"		29.97	"	"	"		"	"	"	
9				"	"		"	"	80	"		"	"	9	
10				"	"		"	79	82	79		"	"	"	
11				"	"		"	"	"	"		"	"	"	
Noon				"	1-2		"	80	85	82		"	"	"	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		244 gallons.
Water received during the preceding 24 hours		2250 "
Water remaining on hand fit for me at Noon		2113 "
Coal consumed during the preceding 24 hours	2 tons	355 lbs.
Coal remaining on hand at Noon	29 "	770 "

P.M.																
1				S by E	2		29.97	80	85	82			bc	Cir Cum	9	
2				"	"		"	82	87	84			"	"	"	
3				"	"		"	"	88	86			"	"	8	
4				"	"		"	"	87	84			"	"	"	
5				"	1-2		"	"	86	83			"	"	"	
6				"	"		"	80	"	"			"	"	"	
7				E	"		"	"	"	"			"	"	"	
8				"	"		30.00	"	83	80			"	"	"	
9				"	"		"	79	82	"			"	"	"	
10				"	"		30.02	"	"	"			"	"	"	
11				"	"		30.03	"	"	"			"	"	3	
Mid.				"	"		30.02	78	81	79			"	"	1	

Longitude by Chronometer from Afternoon Observations ☉	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley
Friday May 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast first part, clear and cool last part watch. Light airs from S. and E. Fires banked in four boilers. Average steam pressure 30 lbs. Lightning in horizon.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Warm. Light S. breeze. Cir. Cum. clouds. Received in Paymaster Department from U. S. Store House the following provisions and small stores, Viz. 6000 lbs bread, 5 bbls flour, 6 lbs beans, 10 kegs pickles, 31 boxes coffee, 25 boxes soap, 6 boxes tobacco. Received 2250 gals fresh water. At 6.45 loosed sail. Banked fires in four boilers. Average steam pressure 30 lbs.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Weather clear and warm, light breeze from S. Finished receiving, and stowed stores belonging to Paymasters Department, consisting of provisions, clothing and small stores at 11 furling sail. Engaged in overhauling rigging aloft. Mail Steamer's State of Texas and Margaret left at 10.30.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light S. by E. breeze. At 1.20 Commenced coaling ship. Received from Naval storehouse in Equipment Department the following articles 39 950/2240 tons coal, 4 lbs cotton twine, 2 bbls line. Fires banked in four boilers. Average steam pressure 30 lbs. Received in Engineers Department from U. S. Naval Storehouse the following stores, Viz. 12 squirt cans, 100 lbs White Lead, 200 lbs waste, 2 bbl Fire clay, 20 quires Emery cloth, 15 galls Boiled Linseed oil, 15 galls Turpentine, 50 lbs Green Paint, 6 Door Mats.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E, hauled to E. Engaged in coaling. Send a liberty party ashore to return at 6 A.M. tomorrow.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Moonlight. Light E[aster]ly airs. Cir. Cum. Nimb. clouds. Lightning to N. and E. and S. and E. Drizzling rain last hour. Banked fires in four boilers. Average steam pressure 25 lbs.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Key West, Florida

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				E	0-1		30.00	80	80	70		bcl	Cum Nimb	5	
2				"	"		29.98	79	"	"		"	"	"	
3				"	1		29.99	78	79	77		bcp	"	1	
4				"	"		30.00	"	"	"		bc	"	7	
5				"	"		"	"	"	78		"	"	8	
6				"	"		30.01	"	80	"		"	Cir Cum	6	
7				"	0-1		30.02	79	81	80		"	"	4	
8				NE	1		30.03	80	82	"		"	Cum Nimb	3	
9				"	"		"	82	83	"		"	Cir Nimb	"	
10				"	"		"	84	"	"		"	"	1	
11				ENE	2		30.02	86	84	81		"	"	4	
Noon				"	"		"	"	"	"		"	"	5	

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon ☉	0			"
Longitude by Chronometer from Forenoon Observations ☉	0			"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ☉ observed at	0		"	"
Water expended during the preceding 24 hours				244 gallons
Water during the preceding 24 hours				"
Water remaining on hand fit for me at Noon				1869 "
Coal consumed during the preceding 24 hours	2	tons	155	lbs.
Coal remaining on hand at Noon	143	"	615	

P,M									
1	ESE	2	30.00	86	86	83	bc	Cir Cum	4
2	"	"	"	"	"	"	"	"	5
3	"	1-2	29.98	85	85	82	"	"	3
4	"	2	29.97	84	"	"	"	"	4
5	"	1	29.98	81	83	"	"	"	6
6	"	"	"	"	82	81	"	"	"
7	"	"	29.98	"	"	"	"	"	7
8	"	"	29.99	80	"	80	"	"	"
9	E	"	29.98	"	"	"	bcl	Cir Cum Nimb	3
10	E by S	2	30.01	79	"	"	bc	"	2
11	"	1	30.02	"	81	79	"	Cir Cum	7
Mid.	"	"	30.00	"	"	"	"	"	6

Longitude by Chronometer from Afternoon Observations	⊙	'	"
Longitude by Chronometer Observations	*	⊙	'
Variation of the Compass by Amplitude		⊙	'
observed at Sunset			
Variation of the Compass by		⊙	'
at			

under the command of Commander Winfield Scott Schley , U. S. Navy.
Saturday May 19th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first part of watch, cloudy latter part. Light airs from E.
Passing showers. Lightning to the N. and E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light E[aster]ly airs. Engaged in coaling ship. Barometer rising.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Light N. E[aster]ly airs. Cir. Cum. Nimb. clouds. Received 10 tons coal. Finished coaling. Received in Navigators Department 47 3/4 galls lard oil. By order of Bureau of Equipment and Recruiting, Thomas D. Talmage (1.C.B.) was this day discharged from the Naval Service and the ship, at his own request. Received for enlistment George O. Holden (Lds), enlisted for special duty for the cruise of the "Essex", unless sooner discharged. Banked fires in four boilers. Average steam pressure 35 lbs.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Warm light breeze from E. S. E. Engaged in cleaning ship inside and outside.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Light E. S. E. breeze. Cir. Cum. clouds. Vent Main topgallant sail and unbent royals. Banked fires in four boilers. Average steam pressure 35 lbs.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Cloudy, pleasant. Light airs from E. Fires banked in four boilers. Average steam pressure 25 lbs.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour.			Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A, M	knots	Fathoms.														
1				ESE	1		29.97	79	81	79		bc	Cir Cum	7		
2				"	0-1		29.95	"	"	"		"	"	6		
3				"	1-2		"	"	"	"		"	"	8		
4				"	2		29.96	"	"	"		"	"	"		
5				E	1		29.97	77	80	"		"	"	"		
6				"	"		29.00	78	81	"		"	"	5		
7			Underway, charge pilot	"	2		30.01	79	82	80		"	"	0		
8	2	2	E by S	"	"		"	"	"	"	80	"	"	1	S	Steaming 6 boilers
9	8	6	"	"	"		"	81	84	81	"	"	"	4	"	"
10	3 5	0 2	ne by e 3/4 e	"	"		30.02	82	85	82	81	"	"	"	"	"
11	4 3	0 4	" ENE	E by N	"		30.03	"	"	"	"	"	"	1	"	"
Noon	8	6	"	"	"		30.01	"	"	"	"	"	"	"	"	"

Distance run by Log since preceding Noon

knots fathoms.

Latitude by D. R. at Noon

Longitude by D. R. at Noon

Latitude by Observations at Noon ☉

Longitude by Chronometer from Forenoon Observations ☉

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise

Variation of the Compass by Azimuth ☉ observed at

Water expended during the preceding 24 hours 244 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1625 "

Coal consumed during the preceding 24 hours 14 tons 105 lbs.

Coal remaining on hand at Noon 129 " 510 "

P.
M.

1	8	4	ENE	E by N	2	30.01	82	85	83	81	bc	Cir Cum	1	S		
2	4	2	ne by e 1/2 e	"	"	29.99	81	84	82	"	"	"	"	"		Steaming 6 boilers
	4	2	ne by e 1/4 e													
3	8	6	ne 1/2 n	E	3	29.97	"	83	81	"	"	"	5	"		all fore and aft sail
4	9	2	ne 1/4 n	"	4	"	79	82	80	"	"	"	4	"		except T. sail and F. jib.
	1	0	"													
5	6	0	ne 1/2 e	"	2	29.96	"	81	79	80	"	Cir Cum	2	"		
	1	0	ne by n									Nimb				
6	8	0	"	"	"	29.95	"	"	"	"	"	"	1	"		
	1	0	nne 3/4 e													
7	9	2	N 1/2 E	"	1-2	29.99	"	80	"	"	"	"	0	"		
8	9	0	"	"	"	30.00	"	82	80	81	"	"	1	"		
9	9	0	"	"	"	"	"	"	"	"	80	"	Cir Cum	2	"	Jib, F. and M. try sail
	4	4	"									Str				
10	4	6	n 3/4 e	"	"	30.01	"	80	78	"	"	"	4	"	"	
11	9	0	"	E by N	"	"	"	"	"	"	"	Cir Cum	6	"	"	
Mi d.	9	0	"	"	"	30.00	"	"	"	"	"	"	5	"		

Longitude by Chronometer from Afternoon Observations ☉

Longitude by Chronometer Observations

*

Variation of the Compass by Amplitude observed at Sunset

Variation of the Compass by at

under the command of Commander Winfield Scott Schley
Sunday May 20th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light E. S. E[aster]ly airs. Cir. Cum. clouds. Moon set at 12.45.
At 12.20 started fires in two boilers. Banked fires in six boilers. Average pressure 42 lbs.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy but pleasant, light E[aster]ly breeze. At 5 hoisted pilot flag, pilot came on board. At 5.40 cast off from dock and hove in to 15 fathoms on port chain. At 6.40 got underway and stood out to sea in charge of pilot. At 7.30 pilot left the ship. At 7.45 to departure, Sand Key L. H. W. 3/4 S. distant 4 1/2 miles. Ships draught forward 14 feet, Amidships 15 feet, Aft 16 feet. Male Steamer "City of Houston" stood in and made fast to dock. Fires in six boilers. Steamed 60 lbs. Revolutions 51. C. B. Foster (Lds) and John Turney (Lds) were left on shore, being absent after the expiration of their leave.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Cloudy, cool and pleasant. Light breeze from E. Unbent both bower chains and secured anchors for sea At 9.25 changed course to N. E. by E. 3/4 E. At 10.35 altered course to E. N. E. At 9.40 sighted Sombrero Light bearing N. E. Several sail in sight at end end [sic] of watch. Sombrero Light bore N. W. 3/4 W. At 12, distant 8 miles.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Light E[aster]ly breeze. Cir. Cum. clouds. At 12.20 lost sight of Sombrero Light bearing (pc) W. 1/8 N. At 1 changed course to N. E. by E. 1/2 E. At 1.17 made Alligator Reef Light bearing (pc) N. N. E. 1/4 E. At 1.30 changed course to N. E. by E. 1/4 E. At 2 change course to N. E. 1/2 N. At 3 changed course to N. E. 1/4 N. Set fore and aft sail, except G. T. sail And F. jib. Passed steamer bound to S. and exchanged colors with several sail beating to N. and E. Saw wreck high up on reefs, everything gone except head booms. At end of watch Alligator Reef Light bore (pc) W. S. W. Steaming under six boilers. Average pressure 61 lbs. Revolutions 52.2.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Cloudy, pleasant. Light breeze from E. At 4.15 changed course to N.E. 1/2 N. At 5.30 changed course to N.E. sighted Carysfort Light bearing N. 1/2 W. Spoke English barque "Jessie" bound for Falmouth. Exchanged colors with a French barque. At 6 changed course to N. 1/2 E. Steaming with six boilers. Average pressure 62 lbs. Revolutions 55.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Cloudy and pleasant. Light E[aster]ly airs. At 6.27 took in all fore and aft sail. At 6.55 sighted Cape Florida Light from topsail yard. (pc) N.N.W. Steaming with six boilers. Steam 65. Revolutions 56.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Gentle breeze from E. Bright moonlight. At 9.20 dropped Carysfoot Light bearing S. W. by W. Revolutions 55. Steam 69 lbs. At 9 set fore trysail, jib and main trysail. At 9.30 altered course to N. 3/4 E.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

					WINDS.		BAROMETER.		TEMPERATURE.				Forms of Clouds, by symbols.		State of the Weather by symbols.		Prop. of Clear Sky, in 10ths.		State of the Sea.		Record of the sail the vessel is under at end of watch.						
Hour.	Knots.	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at f'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.	State of the Weather by symbols.															
A.M.																											
1	9	2	N 3/4 E	NE	0-1		29.97	79	82	79	81	bc	Cir Cum Nimb	8	S	Steaming 6 boilers											
2	9	0	"	"	1		"	"	81	"	82	bcl	Cum Nimb	"	"	All fore and aft											
3	3 6	2 6	n 1/2 w	NW by W	3		"	"	"	"	"	bc	"	9	"	Sail except F. jib											
4	9	2	"	"	"		29.95	78	"	78	"	"	"	"	"	G. T. sail and F. try sail											
5	9	0	"	NW	"		29.96	"	80	"	81	"	Cum Str	"	"	"											
6	9	0	"	"	"		29.98	"	"	"	"	"	Cir Cum Str	8	"	"											
7	9	6	"	"	"		"	"	79	77	82	"	"	6	"	"											
8	8	0	"	"	"		29.99	"	"	"	81	"	"	6	"	"											
9	9	6	"	"	"		29.98	"	"	"	"	o	"	0	"	"											
10	9	2	"	WNW	"		29.99	"	"	"	"	"	"	"	"	"											
11	8	6	"	"	"		29.97	77	"	"	"	"	"	"	"	"											
Noon	8	0	"	"	"		29.95	"	"	"	82	bc	"	2	"	"											
Distance run by Log since preceding Noon												222 knots		4 fathoms.													
Latitude by D. R. at Noon												28	°	31	'	30	"N										
Longitude by D. R. at Noon												79	°	50	'	00	"W										
Latitude by Observations at Noon ☉												29	°	11	'	44	"N										
Longitude by Chronometer from Forenoon Observations ☉												79	°	53	'	00	"W										
Current during the time 4 knots - fms. per hour, setting to the N.																											
Variation of the Compass by Amplitude ☉ observed at Sunrise																											
Variation of the Compass by Azimuth ☉ observed at 8 A.M.												1	°	30	"	00	"E										
Water expended during the preceding 24 hours												244 gallons.															
Water during the preceding 24 hours																											
Water remaining on hand fit for me at Noon												1381 "															
Coal consumed during the preceding 24 hours														tons			lbs.										
Coal remaining on hand at Noon														"			"										
P.M.																											
1	2 6	2 6	n 1/2 w n by w 1/4 w	WNW	2-3		29.95	80	81	78	82	bc	Cir Cum	3	S	Jib. F.T. stay sail											
2	8	6	"	"	"		29.94	"	82	79	"	"	"	4	"	Main try sail and											
3	8	6	"	"	"		29.92	"	83	80	83	"	"	"	"	spanker.											
4	8	6	"	"	"		29.91	"	"	"	82	"	"	"	"	Steaming 6 boilers.											
5	8	6	"	"	1-2		29.90	"	"	81	81	"	"	"	"	"											
6	9	0	"	"	"		"	"	82	80	"	"	"	"	"	"											
7	9	0	"	W	"		29.92	"	81	"	80	"	Cum Nimb Str	7	"	"											
8	9	4	"	WSW	2		29.92	"	80	79	76	"	"	5	"	"											
9	9	4	"	W	3		29.94	"	"	"	"	"	"	4	"	"											
10	7 4	4 4	n by w 1/2 w	"	"		29.96	"	79	77	75	"	"	2	"	"											
11	9	0	"	"	"		29.97	"	76	78	74	oc	Cum Nimb	0	"	"											
Mid.	8	4	"	"	2		29.95	"	"	"	"	o	"	"	"	"											
Longitude by Chronometer from Afternoon Observations ☉												°		'		"											
Longitude by Chronometer Observations *												°		'		"											
Variation of the Compass by Amplitude														observed at Sunset		°		'		"							
Variation of the Compass by at												°		'		"											

under the command of Commander Winfield Scott Schley
May 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Light N.E. airs first, and light N.W. breeze latter part of watch. Cir. Cum. Nimb. clouds. At 12.15 took in fore and aft sail. At 1.15 sighted Jupiter Fulet Light bearing (pc) N.W. At 2.18 Jupiter Fulet Light bore (pc) W, changed course to N. 1/2 W. Set fore and aft sails, save gaff T. sail and F. jib. At 3 last sight of Jupiter Fulet Light bearing (pc) S.W. 1/2 S. At 3.30 took in Fore try sail. Steaming under six boilers. Average pressure 59 lbs. Revolutions 54. Temp of bunkers 110°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light N.W. breeze. Steaming with six boilers. Average pressure 63 lbs. Temp of bunkers 112°. Revolutions 55. Barometer rising. Two sail in sight. Walter C. Blake (Mach) was this day discharged from the ship and from the Naval Service, his time of enlistment having expired March 31st.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy and pleasant. Light breeze from N. and W. ~~At 12.15 changed course to~~ Steaming with six boilers. Several sail sighted during watch. Average pressure 55. Revolutions 53. Temp of bunkers 104°.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and W. At 12.15 changed course to N. by W. 1/4 W. At 3.15 took in all fore and aft sail. One sail in sight at end of watch. Average pressure 69 lbs. Revolutions 53. Temp of bunkers 115°.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear. Warm. Light W.N.W. airs. Cir. Cum. clouds. Engaged in scraping and painting spars. Steaming under six boilers. Average pressure 65 lbs. Temp of bunkers 120°. Revolutions 52. Got up and bent port chain.

(Signed) Richard G. Davenport
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light W. breeze. Steaming with six boilers. Got up and bent starboard chain. Average pressure 65 lbs. Temp of bunkers 120°. Revolutions 55.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear first part of watch, overcast latter part. Light breeze from W. At 9.10 changed course to N. by W. 1/2 W. Got casts of lead every hour, despite varying from 17 to 22 fathoms, bottom gray sand and shell. Steaming with six boilers. Average pressure 60 lbs. Revolutions 50. Temp of bunkers 126°. Halo around moon first part of watch.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour.	K n o t s	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. atft.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	9	0	N by W 1/2 W	W	2-3		29.88	77	77	76	74	bc	Cir Cum Nimb Cum Nimb	1		Steaming 6 boilers
2	8	6	"	"	"		"	"	75	75	73	"	"	2		
3	9	2	"	"	"		29.85	"	"	"	"	"	"	3		
4	4 6	0 0	" n 1/2 w	"	"		"	"	"	"	"	"	"	"		
5	Running into Port Royal S.C.			"	"		29.86	76	77	76	"	"	"	4		
6				"	"		29.88	"	"	"	"	"	"	5		
7	At Anchor P.R.			W by N	2		"	77	79	78		"	"	6		
8				"	"		29.89	79	81	"		"	"	7		
9				NW	"		29.90	81	83	79		"	Cir Cum	"		
10				"	1-2		"	84	86	82		"	"	6		
11				"	"		"	83	"	83		"	"	5		
Noon				"	"		29.89	"	"	"		"	"	4		

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ° ' "

Longitude by Chronometer from Forenoon Observations ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ° observed at Sunrise ° " "

Variation of the Compass by Azimuth ° observed at ° " "

Water expended during the preceding 24 hours 244 gallons.

Water Condensed during the preceding 24 hours 100 "

Water remaining on hand fit for me at Noon 1237 "

Coal consumed during the preceding 24 hours 6 tons 353 lbs.

Coal remaining on hand at Noon 106 " 1560 "

P.M.																
1			N	1-2			29.88	84	87	84		bc	Cir Cum	5		
2			"	"			29.86	"	"	"		"	"	"		
3			NE	"			29.85	"	"	"		"	"	"		
4			S	"			29.84	83	86	83		"	"	"		
5			"	3			29.83	84	"	"		"	"	"		
6			"	4-5			"	82	82	80		"	"	6		
7			"	4			"	80	83	"		"	"	7		
8			"	2-3			"	"	82	"		"	"	8		
9			"	"			29.84	"	"	"		"	"	"		
10			"	1-3			29.84	"	"	"		"	"	"		
11			SW	1-4			29.83	79	81	79		"	"	7		
Mid.			"	1-3			29.82	"	"	"		"	"	6		

Longitude by Chronometer from Afternoon Observations ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Tuesday May 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Moderate breeze from W. Heavy dew. Moon obscured during greater part of watch. Moon set at 2. At 2.10 sighted Tybre Light bearing N.W. by W. At 3.10 made Martins Industry Light Ship bearing N. by W. Soundings 12 and 13 fathoms. At 3.20 altered course to N. 1/2 W. Martins Industry Light Ship bore N. 1/2 E. and Tybre Light W.N.W. 1/2 W. at end of watch. Revolutions 50. Steam pressure 70 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Warm. Light W[ester]ly breeze. Cir. Cum. clouds. At 4.20 slowed down. At 4.45 passed Light Ship. Steaming into Port Royal S.C. At 6 exchanged numbers with "New Hampshire". "N.H." made general signal 12.28. "N.H." to "Essex" 3146. "Essex" to "N.H." sent 5573. "N.H." to "Essex" 4799. "Essex" to "N.H." Geog 7117. "N.H." to "Essex" 5637. "N.H." to "Essex" 212. "N.H. to "Essex" 4799. "Essex" to N.H. Geog 7117. "N.H." to "Essex" 1219. At 7.58 came to anchor in Beaufort River S.C., with starboard anchor in 5 fathoms of water, 22 1/2 fathoms chain at water's edge. Draft forward 14 feet, Amidships 15 feet, Aft 16 feet. Banked fire in six boilers. Average pressure 60 lbs. Revolutions 50. Temp of bunkers 112°.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and warm. Light N.W. breeze. At 10 health officer boarded the ship and granted pratique. Commander visited Senior Officer, pennant aboard the "New Hampshire". At 11.30 swung to flood. Fires banked. At 11.30 "New Hampshire" made general signal 3918.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light airs from N, shifting by E to S. At 12.20 "New Hampshire" made general signal 3918. At 1.30 hauled fires in two boilers. Banked fires in four boilers. Average pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and pleasant. Fresh breeze from S, decreasing. At 5.30 swung to ebb. Walter C. Blake (Mach) was re-enlisted for three years with same grade on continuous service.

(Signed) James K. Cogswell
Ensign.

From 8 to Midnight. Clear. Pleasant. Light S and W breeze. Cir. Cum. clouds passing from N and W. Slack water at 11.10, swung to flood at 11.45. Banked fires in four boilers. Average pressure 30 lbs. Distilling. By order of Commanding Officer Wm H. Rich (Lds) stood two hours extra watch and James B Stanley (1.C.B.) three hours.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Port Royal S.C.

Hour.	Knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at f'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				S and W	1-2		29.80	80	82	80		bc	Cir Cum	8		
2				"	2		"	79	80	79		"	Cum	7		
3				"	"		"	77	"	78		"	"	6		
4				"	"		"	"	79	75		"	"	"		
5				WNW	"		29.82	75	78	"		"	Cum Str	9		
6				"	"		29.83	76	77	74		"	Cum	"		
7				NW by W	"		29.85	"	78	"		"	"	"		
8				NW	"		29.87	"	80	76		"	"	"		
9				"	1-2		"	77	81	77		"	"	8		
10				"	"		"	78	82	78		"	"	"		
11				"	"		"	80	84	80		"	"	"		
Noon				"	0-1		"	82	86	82		"	"	"		

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0		1	"
Longitude by D. R. at Noon	0		1	"
Latitude by Observations at Noon ☉	0		1	"
Longitude by Chronometer from Forenoon Observations ☉	0		1	"
Current during the time	knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ☉ observed at	0		"	"
Water expended during the preceding 24 hours				316 gallons
Water Condensed during the preceding 24 hours				1100 "
Water remaining on hand fit for me at Noon				2021 "
Coal consumed during the preceding 24 hours	2	tons	1795	lbs.
Coal remaining on hand at Noon	134	"	1840	"

P,M									
1	Calm	0	29.86	84	87	84	bc	Cum	4
2	S by W	2	29.84	86	88	"	"	"	5
3	"	"	29.82	"	87	"	"	Cir Cum	6
4	"	"	29.80	83	84	80	"	Cum	"
5	"	"	29.80	82	"	"	"	"	8
6	"	"	"	80	82	"	"	"	"
7	"	"	"	"	"	79	"	"	"
8	"	"	"	78	81	77	"	"	"
9	NNW	"	29.85	"	80	"	"	"	"
10	"	1	29.86	"	79	"	"	"	9
11	NW	2	29.84	"	78	"	"	Cir Cum	"
Mid.	WNW	1	29.85	"	"	"	"	"	8

Longitude by Chronometer from Afternoon Observations	⊙	0	1	11
Longitude by Chronometer Observations	*	0	1	11
Variation of the Compass by Amplitude		0	1	11
observed at Sunset		0	1	11
Variation of the Compass by		0	1	11
at		0	1	11

under the command of Commander Winfield Scott Schley
Wednesday May 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S and W. Ship swinging to flood. Barometer steady. Steam pressure 30 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. and W. Slack water at 4.30. Swung to flood at 5.20. Barometer rising. Spread fires at 7.30. Steam in four boilers. Pressure 30 lbs.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Warm. Light N.W[ester]ly breeze. Cum. clouds. At 8.50 made Int. 4890, answered by "N.H." 904. At 9 got underway and steamed alongside "Pawnee". Commenced coaling at 10. Slack water at 11.20. At 11.30 "N.H." made general signal 2984. Swung to flood at 12. Received on board 12.3 tons coal. Banked fires in four boilers. Average pressure 55 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Warm. Light breeze from S. Engaged in coaling ship. Received onboard 18 tons coal. At 3.35 cast off from "Pawnee". Put on mooring swivel at 30 fathoms on port chain. At 3.45 came to with port anchor. Veered to 60 fathoms. Condemned and threw overboard 50 lbs. of bread.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Warm. Light S. by W. breeze. Cum. clouds. 4.01 let go starboard anchor, veered to 30 fathoms on starboard chain, and moored ship with 30 fathoms on each chain. Put on mooring swivel. Slack water at 6.15. Swung to ebb at 7. Banked fires in two boilers. Average pressure 30 lbs. Distilling. Swung to ebb at 7. Banked fires two boilers. Average pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Cool. Light airs from N. and W. Riding to ebb tide. Fires banked in two boilers. Steam Pressure 32 lbs. Distilling.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour.	Knots	Fathoms.	Cours steer- ed.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by sym- bol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther- m. at d.	Air Dry Bulb.	Air Wet Bulb.					
A.M.															
1				NE	2		29.84	76	78	76	bc	Cum	8		
2				"	"		"	"	77	75	"	"	"		
3				"	3		"	74	74	73	"	"	"		
4				"	3-5		"	73	72	71	"	"	"		
5				N	4		29.88	71	"	69	"	"	"		
6				"	"		"	"	71	67	"	Cir Cum	9		
7				NNE	3		29.89	"	"	68	"	"	"		
8				"	"		"	"	"	"	"	"	"		
9				"	"		"	"	73	70	"	"	"		
10				N by E	2		29.92	72	74	"	"	"	"		
11				"	"		"	"	76	72	"	"	"		
Noon				NNW	"		29.90	74	78	75	"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		248 gallons.
Water during the preceding 24 hours		900 "
Water remaining on hand fit for me at Noon		2673 "
Coal consumed during the preceding 24 hours	1 tons	1035 lbs.
Coal remaining on hand at Noon	133 "	805 "

P.M.															
1				N	1		29.90	74	79	75	b	None	10		
2				"	"		29.88	75	"	76	"	"	"		
3				SE	1-2		29.86	77	"	"	bc	Cum"	9		
4				"	"		"	"	"	"	"	"	"		
5				SSE	2		"	"	78	"	"	Cir Cum	"		
6				"	"		29.87	74	75	72	"	"	"		
7				"	1		"	"	74	"	"	Cir Str	7		
8				SE	2		29.89	72	"	"	"	"	9		
9				SSE	"		29.90	"	"	"	"	"	"		
10				"	1		29.91	71	73	71	"	"	"		
11				"	"		29.92	"	"	"	"	"	"		
Mid.				"	"		29.95	"	"	"	"	"	"		

Longitude by Chronometer from Afternoon Observations ☉	0	"
Longitude by Chronometer Observations *	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley
Thursday May 24th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light N.E[aster]ly wind, increasing to fresh breeze, Cum. Clouds. Swung to flood tide at 12.45. Moon set at 2.53. Moon, and bright starlight. By order of Commanding Officer, Phillip Kincade (Lds) stood four hours extra watch. Banked fires in two boilers. Average pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. and E. Slack water at 6.30. Swung to ebb at 7.30. "New Hampshire" made dress signal 3351. Fires banked in boilers. Average steam pressure 30 lbs. Distilling. Richard Beale (Mach) was transferred to U.S. Receiving at New York with his accounts.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light N[orther]ly breeze. Engaged in holy stoning decks. Surgeon's Wells and Clark and Asst. Surgeon Hibbert reported onboard as member of a medical survey. Received an official visit from Commodore A. K. Huges, Commanding Station. Riding to ebb tide. Slack water at 11.30. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from N. first part, shifting to S. and E. Swung to flood tide at 12.30. At 1 made interrogatory signal 2984. Flagship answered 904. At 2.50 Flagship signaled 1087, answered. Charles Delmar (O.S.2.C.) was discharged in obedience to orders from Bureau of Equipment and Recruiting. Fires banked in two boilers. Average pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. Slack water at 7. Swung to ebb at 7.30. Stopped distilling and hauled fires in two boilers.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and cool. Light S.S.E. breeze. By order of Commanding Officer, John Hall (1.C.B.) and W.D. Jenkins (O.S.2.C.) stood one watch on quarter deck. Riding to ebb.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour.	Knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.		Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				SSE	2		29.90	69	72	70		bc	Cir Cum	5	
2				"	"		"	"	"	"		"	"	6	
3				"	"		"	"	"	"		"	"	"	
4				SE	"		"	68	71	69		"	"	5	
5				NE	"		29.91	"	9	68		"	Cum	4	
6				"	3		29.92	"	68	67		"	Cir Cum	6	
7				"	4		29.94	67	71	69		"	"	8	
8				"	"		29.95	70	"	"		"	"	3	
9				"	"		29.98	"	72	70		bcq	"	4	
10				"	4-5		30.00	"	"	"		"	"	5	
11				ENE	"		"	"	"	"		"	"	2	
Noon				"	"		"	69	70	69		oq	"	0	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		273 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2400 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	133	530 "

P.M.															
1				ENE	4-5		30.00	68	69	67		oq	Cir Cum Nimb	0	
2				"	"		"	67	"	"		"	Cum Nimb	"	
3				"	3-4		29.99	68	"	"		bc	"	1	
4				"	5-4		"	"	"	"		ocr	"	0	
5				"	3		30.00	67	"	"		o	"	"	
6				"	2		"	"	"	"		"	"	"	
7				"	"		30.01	"	68	"		"	"	"	
8				"	"		30.03	68	67	66		"	"	"	
9				"	"		30.04	67	"	65		bc	"	2	
10				NE	3		"	"	"	"		oc	"	0	
11				NNE	"		30.05	66	"	"		bc	"	3	
Mid.				"	"		30.06	"	66	"		"	"	7	

Longitude by Chronometer from Afternoon Observations ☉	°	' "	
Longitude by Chronometer Observations *	°	' "	
Variation of the Compass by Amplitude observed at Sunset	°	' "	
Variation of the Compass by at	°	' "	

under the command of Commander Winfield Scott Schley
Friday May 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool. Light breeze from S. and E. Bright moonlight. Slack water at 1.30. Swung to flood at 2. Moon set at 3.30.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear and pleasant during first part, last hour partially overcast. Moderate breeze from N. and E. Slack water at 7. Swung to ebb at 7.45. Engaged in painting ship outside. Steamer "City of Dallas" of New York arrived. Sent J. H. Fernald (C. Smith) Francis Norton (2.C.F.) and W.F. Hasson (O.S.2.C.) to the steamer for passage to New York, with accounts and transfer papers, having been condemned by medical survey. At 7 "New Hampshire" signaled 3357.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant, overcast last hour. Moderate breeze from N. and E, fresh in squalls. Finished painting ship outside. Engaged in painting ship inside. Riding to ebb tide.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast and squally. Fresh breeze from N. and E. At 1 Chief Engineer Rearick and Asst. Engineer Ransom went aboard monitor "Saugus" to survey that vessel's boilers. Engaged in painting ship. Swung to flood at 1.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast and cool. Light breeze from E.N.E. Slack water at 7.20. Swung to ebb tide at 7.55.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Partially overcast during first part, afterwards clear, cool and pleasant with light breeze from N. and E. Bright moonlight at end of watch. Ship riding to ebb tide. Barometer steady.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour.	Knots	Fathoms.	Cou rses ste e red.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weath er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.
				Direction.	Force.	Leeway.	Height in inches.	Ther. aird.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				NNE	1-2		30.05	63	64	63		bc	Cum	9	
2				"	"		30.05	"	"	"		"	"	"	
3				"	"		30.06	"	63	62		"	"	5	
4				"	"		"	64	"	"		"	"	2	
5				"	"		"	62	62	"		"	Cir Cum	7	
6				"	"		"	63	"	"		"	"	8	
7				"	"		30.05	65	64	63		"	"	"	
8				"	"		30.07	"	66	64		"	"	"	
9				"	2		30.10	67	69	66		"	"	"	
10				NE	2-3		30.12	68	70	67		"	"	"	
11				"	"		30.13	"	72	68		"	"	"	
Noon				"	"		"	69	"	69		"	"	9	

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		257 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2143 "
Coal consumed during the preceding 24 hours	1 tons	195 lbs.
Coal remaining on hand at Noon	132 "	325 "

P.M.															
1			ENE	2-3		30.11	69	72	69			bc	Cir Cum	9	
2			"	"		30.10	70	73	"			"	"	8	
3			"	"		30.09	71	"	"			"	"	9	
4			"	"		"	"	"	70			"	"	8	
5			"	"		"	72	"	69			"	Cum	9	
6			E	2		"	71	72	"			"	Cir Cum	8	
7			"	"		"	70	70	68			"	"	7	
8			"	"		"	"	"	"			"	"	"	
9			"	"		30.11	69	71	70			"	"	8	
10			"	1-2		30.13	"	69	68			"	"	9	
11			"	"		30.15	68	"	67			"	"	8	
Mid.			"	"		30.16	"	68	66			"	"	"	

Longitude by Chronometer from Afternoon Observations ☉	0	"
Longitude by Chronometer Observations *	0	"
Variation of the Compass by Amplitude observed at Sunset	0	"
Variation of the Compass by at	0	"

under the command of Commander Winfield Scott Schley
Saturday May 26th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Light airs from N.N.E. Slack water at 2.04. Swung to flood at 2.50. Moon set at 4. By order of Commanding Officer, J. B. Stanley (O.S.2.C.) and W. D. Jenkins (O.S.2.C.) stood one extra watch.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Cool. Light N.N.E. breeze. Cir. Cum. clouds. Slack water at 7.35. Swung to ebb at 8. Received in Pay Department 122 lbs fresh beef and 132 lbs. vegetables. At 7.30 "New Hampshire" made general signal 3350.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from N. and E. Ship riding to ebb tide. At 9.50 "New Hampshire" made general telegraphic signals. 6702. 1623. 9409. 1004. 9319. 6504. And at 11.15 the following. 8787. 6137.0935. 6322. 392. 9175. Engaged in touching up spots on paint work. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Light E.N.E breeze. Cir. Cum. clouds. Slack water at 1.30. Swung to flood at 2.30. Barometer falling slightly.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear cool and pleasant. Light breeze from E. Riding to flood. At 7 mustered at quarters and served out clean hammocks. Moon rose at 7. The following ratings were made. G.P. Wilson (1.C.F.) to (Mach), J.F. Hennesey (2.G.F.) to (1.G.F.) J. Huges (Lds C.F.) to (2.C.F.) and J. Sutton (Lds. C.F.) to (2.C.F.) by order of Comdg Officer.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Light E[aster]ly breeze. Cir. Cum. clouds. Bright moonlight. Slack water at 8.20. Swung to ebb at 9. Barometer rising.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.														
M.														
1				E	1-2		30.14	65	68	67	b	None	10	
2				"	"		30.12	"	67	66	"	"	"	
3				"	2		30.11	"	66	"	"	"	"	
4				"	"		30.10	"	65	64	bc	Cir Cum	9	
5				NE	"		"	64	63	63	"	"	8	
6				"	"		30.12	"	64	64	"	"	9	
7				NE by E	"		30.14	65	66	65	"	"	"	
8				"	3		30.16	68	68	66	"	"	6	
9				ENE	"		30.17	69	70	67	"	"	5	
10				"	4		30.18	70	72	69	"	"	"	
11				"	3-5		"	"	"	70	"	"	3	
No on				"	3-4		30.17	71	"	"	"	"	2	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ° ' "

Longitude by Chronometer from Forenoon Observations ° ' "

Current during the time Knots fms. per hour, setting to the

Variation of the Compass by Amplitude ° observed at Sunrise ° " "

Variation of the Compass by Azimuth ° observed at

Water expended during the preceding 24 hours 255 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1888 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 132 " 60 "

P.														
M.														
1				ENE	3		30.17	70	73	70	bc	Cum Nimb	2	
2				NE	"		30.16	71	"	"	o	"	"	
3				"	"		30.15	"	"	"	"	"	"	
4				NE by E	"		30.14	"	"	"	"	"	"	
5				ENE	"		"	"	72	69	bc	"	1	
6				"	"		"	70	71	70	op	"	0	
7				"	"		"	"	"	"	"	"	"	
8				"	"		"	"	72	"	bc	"	2	
9				NE	"		30.20	72	71	69	o	"	0	
10				"	"		"	"	"	"	"	"	"	
11				NE by N	3-5		"	71	70	"	oqr	"	"	
Mi d.				"	"		"	70	"	68	"	"	"	

Longitude by Chronometer from Afternoon Observations ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Sunday May 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool and pleasant. Bright moonlight. Light breeze from E. Slack water at 3. Ship swung to flood at 3.45. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. and E. Slack water at 7. At 8 crossed top gallant yards. Barometer rising.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear. Cool. Pleasant. Fresh E.N.E. breeze. Cir.Cum. clouds. At 9.30 swung to ebb. At 9.45 U.S.S. "Hartford" came in and anchored. At 10 Commanding Officer ship and crew at quarters, immediately read Divine service. Commanding Officer paid official visit to Flagship. Barometer falling slowly.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Overcast cool. Moderate breeze from N. and E. Slack water at 3.10. Swung to flood at 3.50. Barometer falling.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear. Cool. Pleasant. Moderate E.N.E. breeze. Cum. Nimb. clouds. Slight rain during latter part of watch. Barometer steady. Riding to flood. At 6.30 Flagship made general signal 29.85.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast, cool. Fresh breeze from N. and E. Raining latter part. Swung to ebb at 9.30. Barometer steady.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. atfd.	Air Dry Bulb.						Air Wet Bulb.
A.															
M.															
1				ENE	3-5		30.19	69	69	68		orq	Niimb	0	
2				"	"		"	"	"	"		"	"	"	
3				"	"		"	67	67	66		"	"	"	
4				"	"		30.21	66	66	"		"	"	"	
5				"	2		30.22	"	"	"		"	"	"	
6				"	"		"	67	67	67		or	"	"	
7				"	1		"	"	"	"		bc	Cum Nimb	1	
8				"	3-4		30.23	68	69	68		oq	"	0	
9				NE	"		30.27	"	"	"		orq	"	"	
10				NE by E	"		30.30	"	"	"		oq	"	"	
11				"	3		"	"	"	"		or	"	"	
No on				ENE	"		"	69	70	"		o	"	"	
Distance run by Log since preceding Noon															
										knots	fathoms.				
Latitude by D. R. at Noon										o	i	"			
Longitude by D. R. at Noon										o	i	"			
Latitude by Observations at Noon ☉										o	i	"			
Longitude by Chronometer from Forenoon Observations ☉										o	i	"			
Current during the time										knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise										o	"	"			
Variation of the Compass by Azimuth ☉ observed at										o	"	"			
Water expended during the preceding 24 hours											300 gallons.				
Water during the preceding 24 hours											"				
Water remaining on hand fit for me at Noon											1588 "				
Coal consumed during the preceding 24 hours											tons	1175	lbs.		
Coal remaining on hand at Noon										131	"	1125	"		
P.															
M.															
1				E by N	3-4		30.28	70	70	68		or	Cum Nimb	0	
2				ENE	"		30.26	"	71	69		oqr	"	"	
3				"	"		"	69	69	68		or	"	"	
4				NE	2		"	"	"	"		"	"	"	
5				NE by E	3-4		30.28	"	"	"		oqr	"	"	
6				ENE	2		30.27	"	"	"		o	"	"	
7				"	"		30.28	"	"	"		"	"	"	
8				"	3		30.27	"	"	"		bc	"	2	
9				"	3-4		30.26	"	"	"		bcq	"	6	
10				NE	"		30.27	"	"	"		oq	"	0	
11				"	3		30.26	"	"	"		"	"	"	
Mi d.				"	3-5		"	"	"	"		"	"	"	
Longitude by Chronometer from Afternoon Observations ☉										o	i	"			
Longitude by Chronometer Observations *										o	i	"			
Variation of the Compass by Amplitude										observed at Sunset			o	i	"
Variation of the Compass by										at			o	i	"

under the command of Commander Winfield Scott Schley
Monday May 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Rainy. E.N.E. breeze, with fresh squalls. Nimbus clouds. Slack water at 3.15. Obscured moonlight.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast. Cool. Squally. Light breeze from E.N.E. At 4.20 swung to flood tide. At 8 "New Hampshire" fired a salute of 13 guns. "Hartford" returned the salute with 11 guns. At 7.30 Flagship made general signal 3351.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Overcast, cool, rainy. Fresh breeze from N.E. by E. At 8.45 Flagship made general signal 611, answered 132. Flagship made telegraphic signals 7362, 4204, and 8218. Made interrogatory signal 1872 to Flagship. Flagship made signal 3873. Slack water at 9.30. Swung to ebb at 10.20. At 10.30 "New Hampshire" fired a salute of 13 guns, "Hartford" returned with 11. At 11 unmoored ship. Hove up starboard anchor. Lifted port anchor clear of bottom and dropped astern. At 11.50 let go port anchor, veering to 30 fathoms chain. Barometer steady.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast and rainy. Moderate breeze from N. and E. At 2.10 Flagship made signal 1087, excepting "New Hampshire" and "Essex", answered. Slack water at 2.30. Captain P.B. Luce U.S.N. made an official visit of courtesy to Commanding Officer.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Overcast, rainy. Moderate breeze from N. and E. Riding to flood tide. Flagship made general signal 1087. Made interrogatory signals 4881. Flagship answered 904.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast. Cool. Moderate breeze from N. and E., fresh in squalls. Slack water at 9.40. Swung to ebb at 10.30.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A.M.														
1				NE	2		30.27	69	69	68	bc	Nimb Cum	2	
2				"	"		30.28	"	70	"	o	"	0	
3				NE by E	4		"	"	69	"	op	"	"	
4				"	1-2		30.27	"	"	"	o	"	"	
5				NE	"		30.28	"	"	67	"	"	"	
6				"	2			68	67	66	op	"	"	
7				"	2-3		"	67	"	"	bc	"	1	
8				"	3		"	"	"	"	o	"	0	
9				"	"		"	"	"	"	bc	Cir Cum	1	
10				"	"		"	68	69	67	"	"	"	
11				NNE	4		30.27	70	71	68	"	"	"	
Noon				N by E	5		30.26	72	73	96	"	"	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 255 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1333 "

Coal consumed during the preceding 24 hours tons lbs.

Coal remaining on hand at Noon 131 " 850 "

P.M.														
1				N by E	5		30.26	72	74	70	bc	Cir Cum	2	
2				"	"		30.24	"	75	72	"	"	"	
3				"	"		30.22	"	"	"	"	"	"	
4				"	"		30.20	"	"	"	"	"	"	
5				"	4		30.19	"	"	"	"	"	5	
6				"	"		"	"	"	"	"	"	6	
7				"	"		"	"	"	"	"	"	7	
8				"	3		"	"	"	"	"	"	8	
9				NE	"		30.18	73	73	72	b	None	10	
10				"	"		"	70	72	71	"	"	"	
11				"	"		"	"	71	70	"	"	"	
Mid.				"	"		"	"	70	69	"	"	"	

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Tuesday May 29th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, with occasional rain showers. Light breeze from N. and E. Riding to ebb tide. Obscured moonlight.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Overcast. Moderate breeze from N.E. Tide turned flood at 7. Flagship signaled 3351.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Cool. Pleasant. Fresh N.E[aster]ly breeze. Cir. Cum. clouds. Slack water at 10.30. Swung to ebb at 11. At 11.30 Flagship made general telegraphic signals 9559. 629. 6398. 3310. 4204. Cor, No 1. 629. Cor, No 88. 9409. 9282. 0981. 3181. Received in Pay Department 105 lbs fresh bread. By order of Comdg Officer, J. Turney (Lds) and C. B. Foster (Lds) were declared deserters, they having been about ten days without leave.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear, pleasant, with fresh breeze from N. At 1 transferred to temporary duty to U.S.S. "Leleigh" the following named men, Viz. John Ford (Lds E.F.). Fred Cashman (1.C.F.). Mick Clary (2r Gr). Fred Porter (Sea). Herman Meyer (1.C.B.) W. J. Smith (O.S.2.C.). John Hall (1.C.B.). Fred Wolfinger (O.S.2.C.). F. C. Jones (1.C.B.). John Hashagau (O.S.2.C.). J. V. Marion (1.C.B.). P. H. Emmons (O.S.2.C.). Geo. H Fisher (1.C.B.). J. B. Stanley (1.C.B.). To "Ajax" for temporary duty, Henry Simpson (2.C.F.). C. M. Thompson (Lds C.F.). Ensign S. C. Lemly, Midshipmen W. H. Allen and T. D. Griffin were detached and ordered to "Leleigh" for temporary duty. Midshipmen G. W. Hannum and Richard Henderson to the "Ajax". Riding to ebb during watch. Slack water at 4. Received onboard 1650 galls. of fresh water.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear and pleasant. Fresh breeze from N. and E. At 4.30 swung to the flood. At 7 mustered at quarters.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Moderate N.E. breeze. At 9.45 moon rose. Bright moonlight. At 10 slack water. Swung to ebb at at [sic] 10.45

(Signed) James G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	o	'	"
Longitude by D. R. at Noon	o	'	"
Latitude by Observations at Noon ☉	o	'	"
Longitude by Chronometer from Forenoon Observations ☉	o	'	"
Current during the time Knots fms. per hour, setting to the			
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	"	"
Variation of the Compass by Azimuth ☉ observed at	o	"	"
Water expended during the preceding 24 hours			255 gallons
Water Received during the preceding 24 hours			1650 "
Water remaining on hand fit for me at Noon			2500 "
Coal consumed during the preceding 24 hours		tons	275 lbs.
Coal remaining on hand at Noon	131	"	575

Longitude by Chronometer from Afternoon Observations	⊙	0	1	11
Longitude by Chronometer Observations	*	0	1	11
Variation of the Compass by Amplitude	observed at Sunset	0	1	11
Variation of the Compass by	at	0	1	11

under the command of Commander Winfield Scott Schley
Wednesday May 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant with light breeze from E. Riding to ebb.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. At 5.15 slack water. At 5.40 swung to flood. At 6.40 "Hartford" got underway and stood out to the harbor. Clear and pleasant during watch with light breeze from N. and E. At 7.45 made signal interrogatory 5455 to "New Hampshire", answered 904.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from N. and E. At 10.20 "New Hampshire" made general signal 2984. At 11.35 made interrogatory 4826. "New Hampshire" answered 904. Furled sail. At 11.30 swung to the ebb.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Moderate E. by N. breeze. Riding to ebb. Unbent and sent below gaff topsail.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and pleasant with light breeze from E. At 4.30 swung to flood. Barometer steady.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear. Calm latter part of watch. Bright moonlight. At 11.30 swung to ebb.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1				ENE	1		30.11	69	69	69		b	None	10		
2				NE	"		30.10	"	"	"		"	"	"		
3				NE by N	2		"	"	"	"		"	"	"		
4				NNE	"		"	"	"	"		"	"	"		
5				"	"		"	"	"	"		"	"	"		
6				"	"		30.12	68	68	68		"	"	"		
7				"	"		30.13	"	"	"		"	"	"		
8				"	"		30.14	70	71	70		"	"	"		
9				"	"		30.15	72	74	73		bc	Cir Cum	9		
10				"	"		"	"	"	74		"	"	8		
11				"	"		"	"	"	"		"	"	"		
Noon				"	"		"	"	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ⊙	0	"
Longitude by Chronometer from Forenoon Observations ⊙	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	0	"
Variation of the Compass by Azimuth ⊙ observed at	0	"
Water expended during the preceding 24 hours		300 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	131	300 "

P.M																			
1		ENE	3		30.15	75	77	74		bc	Cum Str	9							
2		N by N	4		"	76	"	"		"	"	"							
3		"	"		"	"	"	"		"	"	"							
4		"	"		"	"	"	"		"	"	"							
5		ESE	"		30.14	"	75	73		b	None	10							
6		SE	3		"	75	"	72		"	"	"							
7		"	2		"	"	"	"		"	"	"							
8		"	"		"	"	"	"		"	"	"							
9		"	"		30.15	"	"	"		bc	Cir Cum	8							
10		"	"		30.16	"	"	"		"	"	"							
11		Calm	0		"	73	74	"		"	"	"							
Mid.		"	"		30.17	"	72	"		"	"	"							
Longitude by Chronometer from Afternoon Observations ☉													0	"	"				
Longitude by Chronometer Observations *													0	"	"				
Variation of the Compass by Amplitude																			

under the command of Commander Winfield Scott Schley
Thursday May 31st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Bright moonlight. Heavy dew. Light N.E. breeze. Riding to ebb.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant with light breeze from N. and E. At 5.50 slack water. At 6.10 ship swung to the flood. At 7.30 "New Hampshire" made general signal 3351.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Clear and pleasant with light breeze from N. and E. At 9.30 mustered at quarters. Exercised Company A. at single sticks, Company B. and Marine Guard at infantry drill. Slack water at 11.30. Swung to ebb at 11.50.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E. Quarterly Board of Survey condemned and threw overboard 150 lbs coffee. Made preparations for towing monitor.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Cool. Pleasant. Moderate E[aster]ly breeze. Slack water at 4.30. Swung to flood at 5.20.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Light breeze from S. and E. first half of watch. Calm latter half. Swung to ebb at 11.50.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at/d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				Calm	0		30.19	70	70	69		bc	Cum	9		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				E	1		"	"	"	"		"	"	"		
5				NE	2		30.20	68	69	69		bcm	Str	"		
6				NE by N	"		30.22	69	"	"		"	"	"		
7				"	"		"	70	71	70		b	None	10		
8				"	"		"	"	"	"		"	"	"		
9				"	3		"	72	73	71		bc	Cum	9		
10				ENE	"		"	75	76	73		"	"	"		
11				"	"		"	77	78	74		"	"	"		
Noon				"	"		"	79	80	75		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon ☉	0	1	"
Longitude by Chronometer from Forenoon Observations ☉	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			255 gallons
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1945 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	131	"	25 "

P.M.										
1	E	3	30.22	78	78	75	bc	Cir Cum	8	
2	"	"	"	"	"	"	"	"	"	
3	"	"	"	"	"	"	"	"	"	
4	"	"	"	"	"	"	"	"	"	
5	"	"	30.21	"	77	74	"	Cir Str	9	
6	"	"	"	77	"	"	"	"	"	
7	ENE	"	30.22	76	76	"	"	"	"	
8	NE	"	"	"	"	"	"	"	"	
9	"	2	"	"	"	"	b	None	10	
10	"	1	30.22	75	75	73	"	"	"	
11	"	"	"	74	74	72	"	"	"	
Mid.	"	"	"	73	73	"	"	"	"	

Longitude by Chronometer from Afternoon Observations	⊙	0	1	18
Longitude by Chronometer Observations	*	0	1	18
Variation of the Compass by Amplitude	observed at Sunset	0	1	18
Variation of the Compass by	at	0	1	18

under the command of Commander Winfield Scott Schley
Friday June 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and calm. Light airs from E. at end of watch. Riding to ebb.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Hazy around the horizon during first part of watch. At 6.10 slack water. At 6.40 ship swung to flood. At 7.30 "New Hampshire" made general signal 3357. Answered.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Clear. Cool. Pleasant. Light E.N.E. breeze. Cum. clouds. Riding to flood. Slack water at 11.30. Sent working party to "Leleigh". By order of Commanding Officer, Pay Clerk W. P. DeBehren was placed under arrest, with sentry over him, for conduct prejudicial to discipline.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant with light breeze from E. Swung to ebb at 4. At 3 "New Hampshire" made telegraphic signals, 6849. 4904. 5964. 9409. 8432. 0935. 7836. 6860. 1608.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from E. Swung to the flood at 6.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant with light breeze from the N. and E. At 6.10 slack water. At 6.40 swung to flood tide. At 6.40 "Leleigh" hauled from alongside "Pawnee". At sunset sent down top gallant yards. Pay Clerk W. P. DeBehrens was released from arrest by order of Commanding Officer.

(Signed) Asa Walker
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light N.E. breeze. Heavy dew. Bright starlight. Riding to flood. Moon rose at 11.40.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.															
1				Variable	0-2	30.24	70	73	70		bc	Cir Cum	9		
2				"	"	"	"	"	"		"	"	"		
3				"	"	"	"	"	"		"	"	"		
4				NNW	2	"	"	"	"		"	"	"		
5				NE	1	30.23	72	72	71		"	Str	"		
6				"	"	"	"	"	"		"	"	"		
7				"	"	"	"	"	"		"	"	"		
8				"	"	"	"	73	70		"	"	"		
9				"	"	"	72	76	71		"	Cir Cum	"		
10				"	"	"	76	"	73		"	"	"		
11				"	"	30.24	78	78	74		"	"	"		
Noon	Underway		SE		2	30.25	80	80	75		"	"	8		Steaming 8 boilers.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon		°	'	"
Longitude by D. R. at Noon		°	'	"
Latitude by Observations at Noon ☉		°	'	"
Longitude by Chronometer from Forenoon Observations ☉		°	'	"
Current during the time	Knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise		°	"	"
Variation of the Compass by Azimuth ☉ observed at		°	"	"
Water expended during the preceding 24 hours				255 gallons.
Water during the preceding 24 hours				"
Water remaining on hand fit for me at Noon				1690 "
Coal consumed during the preceding 24 hours	12	tons	935	lbs.
Coal remaining on hand at Noon	108	"	1230	"

P.M.															
1				SE	2	30.24	77	77	75		bc	Cir Cum	9	S	
2				"	"	30.22	"	"	"		"	"	"	"	
3				"	"	30.21	"	"	"		"	"	"	"	
4	4	0	ne e by 1/4 e	"	3	"	"	"	"		"	"	"	"	
5	5	6	"	SSE	"	"	76	76	74		b	None	10	"	Topsails & fore and aft sails
6	6	2	"	"	"	"	"	"	"		"	"	"	"	Steaming 8 boilers
7	6	6	"	"	"	30.22	"	"	"		"	"	"	"	Topsails all fore and aft
8	6	4	"	"	"	"	"	"	"		"	"	"	"	Sail except gaff topsail
9	6	0	"	ESE	1	"	"	"	"		bc	Cir	9	"	and flying jib.
10	6	0	"	"	"	"	73	72	73		b	None	10	"	"
11	6	0	"	"	"	"	71	"	70		"	"	"	"	"
Mid.	6	4	"	"	"	"	70	"	"		"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉		°	'	"
Longitude by Chronometer Observations *		°	'	"
Variation of the Compass by Amplitude observed at Sunset		°	'	"
Variation of the Compass by at		°	'	"

under the command of Commander Winfield Scott Schley
Saturday June 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Wind light and variable. At 12.40 swung to ebb.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. and E. At 6.30 swung to the flood. At 6 "Ajax" got underway. At 7 "Ossipee" got underway and steamed out. At 7.30 "New Hampshire" signaled 3354. At 7 started fire under eight boilers. At 7.15 made Int. 3351 and Int. 4560. "New Hampshire answered 904.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Cool. Pleasant. Light N.E[aster]ly breeze. Cir. Cum. clouds. Riding to flood. At 10.30 brought to and hove in to 15 fathoms port chain. At 10.45 made Int. signal 4890, "New Hampshire" answered 904. At 11 called all hands, hove up port anchor. And at 11.20 started ahead with "Leleigh" in tow. Steam in 8 boilers. Revolutions 55. steam pressure 75 lbs. Ships draft forward 14 feet, Amidships 15 feet, Aft 16 feet. Enlisted for the cruise of the "Essex", Henry Merault (Lds). By order Commanding Officer, the following changes were made in the ships company, Viz. Richard Jones (W.R.C) disrated to Lds, from this day including. W. H. Johnson (W.O.C.) rated (W.O.Stew.) from the 1st ultimo inclusive. Geo. O. Holden (Lds) rated (W.O.C.) from this date inclusive.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant with light breeze from S. and E. Steaming with "Leleigh" in tow. 8 boilers. At 1 bent 13 inch hawser to "Leleigh's" tow line and veered 40 fathoms over stern. At 3 stopped for five minutes to cool hot bearing. At 3 set all fore and aft sail. At 3.15 took departure, Martins Industry Light bore S.W. 1/4 W. distant 8 miles. Course N.E. by E. 1/4 E. Steaming with 8 boilers. Steam pressure 70 lbs. Revolutions last hour 40. At 3.30 made telegraphic signals to "Leleigh", 8413. 1095. 0804. 829. 0416. 5301. 8580. 6839. 5199. 0935. 5244. 0088. 6860. 6217. 32. 9409. 5199. 5301. 27. 6839. 5199. 6891. 1. 6217. 58 & dip. 945. 6691. 4060. 8029. 3827. 9794. 5196. 5301. 8291. 2456. 3820. 5196. 533. 6702. 8435. 3120. 6880. 6691. 3854. 5426.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S. and E. Sea smooth. At 4.30 set topsails. Got cast with the lead 10 fathoms. One steamer and three small sail in sight.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear. Cool. Pleasant. Light E.S.E. breeze. At 6.30 mustered crew at quarters. At 6.45 got cast of lead in 10 fathoms water. At 8.50 made Morris Island Light bearing (pc) N 7/8 E. just on the horizon. Several sail in sight at end of watch. Steaming 8 boilers. Average pressure 60 lbs. Revolutions 48.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant with light airs from S. and E. At 9 clewed up and furled topsails. Got soundings every hour, they were 10, 9 1/2, 10 and 9 fathoms, sandy bottom. Sighted Rattlesnake Light Ship at 10. Steaming 8 boilers. Average pressure 60 lbs. Revolutions 49. Steamer passed us going north.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in tenths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A,M																
1	6	2	ne by e 1/4 e	S	0-1		30.22	74	74	72		b	None	10	S	
2	6	0	"	Calm	0		"	"	"	"		"	"	"	"	
3	6	0	"	"	"		"	"	"	"		"	"	"	"	
4	6	0	"	"	"		"	"	"	"		"	"	"	"	
5	6	2	"	sw by w	1		"	"	"	73	74	"	"	"	"	
6	6	2	"	"	2		"	"	"	"		"	"	"	"	
7	6	2	"	"	"		30.23	"	75	"	73	"	"	"	"	
8	6	2	"	"	"		"	"	76	"	74	"	"	"	"	
9	6	0	"	"	3		"	"	"	"	"	bc	Cir Cum	9	"	
10	3	0	"	"	4		"	73	78	75	"	"	"	"	"	
11	6	4	ne by e	"	5		30.24	75	"	76	"	"	"	"	"	All plain sail
Noon	6	4	"	"	"		30.22	77	"	"	75	"	"	"	"	except royals, jib and T. jib.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon		0		"
Longitude by D. R. at Noon		0		"
Latitude by Observations at Noon ☉		0		"
Longitude by Chronometer from Forenoon Observations ☉		0		"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise		0	"	"
Variation of the Compass by Azimuth ☉ observed at		0	"	"
Water expended during the preceding 24 hours				250 gallons.
Water			during the preceding 24 hours	"
Water remaining on hand fit for me at Noon				1440 "
Coal consumed during the preceding 24 hours	19	tons	115	lbs.
Coal remaining on hand at Noon	99	"	1215	"

P,M																
1	2	0	ne by e 3/4 e	SW by S	3		30.18	74	80	78	76	b	None	10	S	
2	6	6	"	SSW	4		30.14	"	"	"	"	"	"	"	"	Topsails, top gallant
3	7	0	"	"	"		30.13	"	"	"	"	"	"	"	"	sails, fore sail and
4	7	0	"	"	"		"	"	"	"	"	"	"	"	"	fore topmast staysail.
5	6	6	"	"	"		"	"	"	"	"	"	"	"	"	"
6	6	6	"	"	"		"	80	"	"	"	"	"	"	"	"
7	6	6	"	"	"		"	"	76	76	74	"	"	"	"	"
8	7	0	"	"	"		"	"	"	77	"	"	"	"	"	"
9	6	0	"	SW	"		30.14	78	78	76	76	bc	Cum	9	"	"
10	7	2	ne 1/2 e	"	"		"	"	"	"	"	"	"	"	"	"
11	7	2	"	"	"		30.12	"	"	"	"	"	"	"	"	"
Mid.	7	0	"	"	"		"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉		0		"
Longitude by Chronometer Observations	*	0		"
Variation of the Compass by Amplitude	observed at Sunset	0		"
Variation of the Compass by	at	0		"

under the command of Commander Winfield Scott Schley
Sunday June 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Bright moonlight. Moon rose at 12. Sea smooth. At 1.30 sighted Cape Romain Light, which bore N.W. 1/4 W. at end of watch. Took in fore and aft sail.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Cool. Pleasant. Light S.W. by W. breeze. At 5 made sail to topsails, fore sail, fore topmast staysail. Took in Main try sail. Got cast of lead at 5 in 13 fathoms. At 6 no bottom at 15 fathoms. At 7 no bottom at 15 fathoms. Several sail and a vessel supposed to be the U.S.S. "Ossipee" standing to N. and E. Steam in 8 boilers. Average pressure 60 lbs. Revolutions 50.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and pleasant with light breeze from S. and W. At 9.30 changed course to N.E. by E. At 10 mustered at quarters, afterwards called all hands to muster and read Articles of War. Read proceedings and findings of General Court Martial on board the U.S.S. "Hartford". Commanding Officer read prayers. Mustered crew. Got soundings every hour 17, 17 1/2 and 18 fathoms, sandy bottom. At 9.30 crossed top gallant yards and set sails. Average pressure 60 lbs. Temp of bunkers 120°. Revolutions 49. Steaming 8 boilers. By order of Commanding Officer, Henry Merault was rated (W.R.G.) from this date inclusive.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and warm. Moderate breeze from S. At 12.15 exchanged positions with the "Leleigh". At 12.20 altered course to N.E. 3/4 E. At 12 "Leleigh" signaled 5817. "Ossipee" in sight with "Ajax" in tow, off port bow. Hove the lead 17 fathoms.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear. Cool. Pleasant. Light S.S.W. breeze. At 5 got cast of lead in 10 fathoms water, gray sand and shell. End of watch "Ossipee" with "Ajax" in tow bore (pc) N. by E. 1/4 E. distant about 8 miles. Steaming 8 boilers. Average pressure 60 lbs. Revolutions 49.

(Signed) Richard G. Davenport.
Lieut.

From 6 to 8 P.M. Clear and pleasant with moderate breeze from S. and W. Soundings at 6.30 and 7.30, 19 and 17 fathoms. Barometer falling. Steaming 8 boilers. Average revolutions 50. Steam pressure 60 lbs. At end of watch "Ossipee" with "Ajax" in tow in sight on port bow distant about 7 miles.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and pleasant. Moderate breeze from S. At 8.45 changed course to N.E. 1/2 E. Got a cast with the lead every hour, 16 fathoms. "Ossipee" and "Ajax" in sight on port bow.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots Fathoms.		Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weath- er by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	7	0	ne 1/2 e	SW	5		30.13	74	76	74	74	b	None	10	S	Topsails, top gallant
2	7	0	"	"	"		"	"	"	"	"	"	"	"	"	sails, fore sail and
3	7	2	"	"	6		30.14	"	"	"	"	"	"	"	"	fore topmast stay sail.
4	7	2	"	SW by W	"		30.13	"	75	"	"	"	"	"	"	"
5	7	0	"	"	"		30.12	"	"	"	"	"	"	"	"	"
6	7	0	"	"	5		30.13	75	76	73	"	"	"	"	"	"
7	6	0	"	"	6		30.14	"	"	"	"	"	"	"	"	"
8	5	0	"	"	"		"	76	74	78	75	"	"	"	"	"
9	5	2	NE	WSW	5		30.13	78	"	79	76	bcp	Cum	9	"	"
10	1	4	"	"	"		30.12	79	76	76	"	"	"	8	"	"
11	5	2	ne 1/4 n	"	"		30.10	"	"	"	"	"	"	5	"	Plain sail except
11	5	4	"	"	"		30.10	"	"	"	"	"	"	5	"	Plain sail except
Noon	4	2	"	"	"		"	"	"	"	"	"	"	"	"	flying jib & spanker
Noon	1	2	ne 1/2 n	"	"		"	"	"	"	"	"	"	"	"	

Distance run by Log since preceding Noon

Latitude by D. R. at Noon

Longitude by D. R. at Noon

Latitude by Observations at Noon ☉

Longitude by Chronometer from Forenoon Observations ☉

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise

Variation of the Compass by Azimuth ☉ observed at

Water expended during the preceding 24 hours

250 gallons.

Water during the preceding 24 hours

Water remaining on hand fit for me at Noon

1190 "

Coal consumed during the preceding 24 hours

19 tons 815 lbs.

Coal remaining on hand at Noon

80 " 400 "

P.M.

1	2	0	ne 1/2 n	WSW	5		30.09	79	79	79	76	b	None	10	S	All plain sail except
	5	4	ne 1/2 e	"	"							"	"	"	"	
2	6	6	"	"	"		30.06	"	78	"	"	"	"	"	"	F. jib, spanker and G. tsl.
	0	6	ne 1/2 n	"	"							"	"	"	"	
3	2	0	ne x n 1/2 n	"	6		30.04	"	"	"	75	"	"	"	"	
	3	4	n 1/2 e	"	"							"	"	"	"	
4	6	6	N	W by S	5		"	78	"	77	74	"	"	"	"	
	3	2	"	"	"							"	"	"	"	
5	3	0	n by w	"	3		"	76	75	72	72	bcm	Cir Cum	5	"	
	6	2	"	sw by w	4		30.03	75	74	"	"	"	"	"	"	
6	6	4	"	"	3		30.05	73	73	"	"	"	Cum Nimb	"	"	
	6	4	"	WSW	"		"	"	"	"	"	bcml	"	4	"	
9	3	0	n by w 1/2 w	"	"		"	"	72	"	"	bcql	"	"	"	Jib, F. and M. trysails
	4	4	n by w 3/4 w	"	"							"	"	"	"	
10	7	4	"	"	2		30.03	74	71	"	"	"	"	0	"	and spanker.
	2	0	"	"	"		"	"	"	"	"	"	"	"	"	
11	6	0	nnw 1/2 w	"	"		"	"	"	"	69	opl	"	"	"	
Mid.	8	0	"	"	"		"	"	"	"	"	"	"	"	"	

Longitude by Chronometer from Afternoon Observations ☉

Longitude by Chronometer Observations

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Variation of the Compass by Amplitude

observed at Sunset

Variation of the Compass by

at

under the command of Commander Winfield Scott Schley
Monday June 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Moderate S.W. wind. Got cast of lead as follows viz. At 1 no bottom 20 fathoms, at 2 no bottom 20 fathoms, at 3 no bottom at 22 fathoms, at 4 no bottom at 19 fathoms. Overhauled and passed "Ajax" and "Ossipee". At end of watch latter bore (pc) N.W. by W. 1/2 W. distant about 1/2 mile. Steaming 8 boilers. Average pressure 63 lbs. revolutions 50.7. Temp of bunkers 104°.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant with moderate breeze from S.W. by W. At 4.30 got soundings at 15 fathoms. At 5.30, 6.30 sounded and got no bottom at 19 fathoms. At 6.50 slowed down and at 7.10 stopped engines in order to haul in five fathoms of hawser. At 7.20 went ahead full speed. Steaming 8 boilers. Average revolutions 50. Steam pressure 70 lbs. "Ossipee" and "Ajax" on starboard beam distant 3/4 miles. M. W. Moore (1.C.B.) stood four hours lookout by order of Commanding Officer.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Weather hazy. Pleasant. Moderate breeze from S. and W. Changed course at 8.45 to N. E. At 9.15 changed course to N.E. 1/4 N. and at 11.45 altered course to N.E. 1/2 N. Stopped engines for five minutes to secure towline in wake of chafe. "Ossipee" and "Ajax" in sight on port bow distant 1/2 mile. At 9 set royals and jib.

(Signed) James K. Cogswell
Lieut

From Merid. to 4 P.M. Clear. Cool. Pleasant. Misty. Moderate W.S.W. breeze. Got cast of lead as follows, Viz. At 12.20, 25 fathoms. At 1.50 no bottom at 20 fathoms. At 3 bottom at 17 fathoms. At 3.30 bottom at 18 fathoms. At 12.20 exchanged positions with "Leleigh" and "Ossipee". At 1.25 made buoy off Cape Hatteras bearing (pc) N.W. distant about five miles. At 2.40 set main try sail. Changed course as follows Viz. At 12.20 to N.E. 1/2 E. At 1.50 to N.E. 1/2 N. At 2.15 to N.E. by N. 1/2 N. At 2.30 to N. 1/2 E. At 3 to N. At end of watch "Ossipee" with "Ajax" in tow bore (pc) S.E. 1/2 S. Steaming 8 boilers. Average pressure 75 lbs. Revolutions 55. Temp of bunkers 112°. Sighted several sail bound to the N. and S.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Hazy. Pleasant with light breeze from S. and W. At 4.30 changed course to N. by W. Got soundings at 4.30 and 5.30. 18 1/2 and 21 fathoms, sandy bottom. "Ossipee" and "Ajax" in sight on port quarter distant about 7 miles. Steamed with 8 boilers. Average pressure 62 lbs. Revolutions 50. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Weather cloudy, hazy, damp. Light breeze from S. and W. At 6.45 took in royal and sent yards on deck. At 7 took in foresail. At 7.45 furled topgallant sails. "Ossipee" in sight on starboard quarter. Lightening to the N. and W. latter part of watch.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast. Cool. Thick. Light W.S.W. breeze. Cum. Nimb. clouds. Passing showers. At 8.20 took in and furled topsails. At 8.30 changed course to N. by W. 1/2 W. At 8.46 changed course to N. by W. 3/4 W. and sent down topgallant yards. At 9.30 set spanker and fore try sail. At 9.40 hauled down head sails to squalls head. At 10.13 changed course to N.N.W. 1/2 W. Slowed down and got cast of lead every hour as follows Viz. 18, 18, 17, 16 fathoms. Steaming 8 boilers. Average pressure 72 lbs. Revolutions 50. Temp of bunkers 125°. At 9.30 lost sight of "Ossipee" and "Ajax" in haze, bearing (pc) S.E. by S.

(Signed) R. G. Davenport, Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Standing in for Hampton Roads Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A, M.																
1	6	4	NNW 1/2 W	WSW	3		30.03	72	73	70	72	ori	Cum Nimb	0	S	
2	7	0	"	"	"		30.01	"	"	69	"	"	"	"	"	Steaming 8 boilers
3	7	0	"	"	"		29.99	71	71	"	"	ol	"	"	"	jib, M. T. sail &
4	7	2	"	"	5		30.01	"	70	71	"	bcl	"	3	"	spanker.
5	7	"	"	W by S	4		30.00	"	"	"	"	bcm	"	5	"	
6	7		NW 1/2 N	W	"		"	72	72	"	"	"	"	"	"	Fore and aft sail
7			Standing in for Cape Henry Light	"	"		"	73	73	"	"	"	"	4	"	
8			"	"	"		"	"	70	72	73	"	"	"	"	
9			"	SW	"		30.03	71	"	71	"	"	Cum	8	"	Steaming
10			Standing in for Old Point.	"	"		29.99	73	73	73	"	"	"	"	"	
11			"	"	"		29.96	75	75	"	"	"	"	"	"	
No on			"	"	"		29.93	"	78	78	"	"	"	"	"	

Distance run by Log since preceding Noon knots fathoms.

Latitude by D. R. at Noon ° ' "

Longitude by D. R. at Noon ° ' "

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ ° ' "

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° ' "

Variation of the Compass by Azimuth ⊙ observed at ° ' "

Water expended during the preceding 24 hours 250 gallons.

Water Condensed during the preceding 24 hours 500 "

Water remaining on hand fit for me at Noon 1440 "

Coal consumed during the preceding 24 hours 9 tons 1515 lbs.

Coal remaining on hand at Noon 70 " 1125 "

P. M.																	
1				SW	4		29.91	80	84	76		bcm	Cum		9		
2				"	3		29.87	83	87	81		"	"		"		
3				"	4		29.83	84	"	"		"	"		"		
4				"	3		29.79	85	88	80		"	"		"		
5				"	2		29.78	81	82	81		"	"		7		
6				"	"		"	"	"	"		"	"		6		
7				"	3		"	"	"	"		"	"		5		
8				SSW	2		"	"	"	"		"	"		"		
9				"	3		"	"	"	"		"	"		"		
10				"	"		"	"	"	"		"	"		"		
11				"	2		"	80	"	"		"	"		4		
Mi d.				S	"		"	"	"	"		"	"		"		

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Tuesday June 5th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast with passing showers of rain first half of watch, latter half overcast and pleasant. Light breeze from S. and W. At 1.30 sighted Currituck Light two points forward port beam. At 3 Currituck Light bore abeam and at 3.45 lost sight of it, last bearing S.W. 1/2 S. Got soundings every hour, 17, 17 1/2, 13 and 14 fathoms, sandy bottom. At 3.20 took in Fore try sail. Steaming with 8 boilers. Average pressure 74 lbs. Revolutions 51.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Cloudy and misty. High dawn. Moderate breeze from W. Changed course at 6 to N.W. 1/2 N. At 5.30 sighted Cape Henry Light bearing N.W. 1/2 W. Land in sight on port beam.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Cool. Pleasant. Misty. Light S.W. breeze. Cum. clouds. Standing in for Old Point. At 10.30 exchanged numbers with Flagship and made telegraphic signals 8332. 9. 6115. 7315. 945. Geo, 3420. Tel, 1339. 7422. 9409. 0059. Flagship answered 5637. At 11.45 "Leleigh" let go towline. Steaming 8 boilers. Temp of bunkers 112°. Steam pressure 70 lbs. Revolutions 50. Distiller in operation.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear warm and pleasant. Light breeze from S. and W. At 3.30 made signal to "Leleigh" 964 and 4697. At 3 exchanged number with U.S.S. "Franklin". At 3.30 went alongside wharf at Navy Yard Norfolk Va, and moored. Distilling. Stopped off Quarantine Station and blew whistle several times, no Health Officer coming onboard continued up the channel.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S.W. Commanding Officer made an official visit to the Commandant of the Navy Yard.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear. Warm. Moderate S.S.E. breeze. Cum clouds. At 6 hauled fires in 6 boilers, banked in two. Distilling. Ensign Sam. C. Lemly reported back for duty.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant with fresh breeze from S. and W. Steam in two boilers. Distilling.

(Signed) Wainwrigth Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in tenths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.		Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					
A. M.				S		29.78	74	74	72		bc	Cir Cum	4		
1				"	"	"	"	"	"		"	"	5		
2				"	"	"	"	"	"		"	"	6		
3				"	"	"	"	"	"		"	"	"		
4				"	"	29.76	75	75	71		"	"	5		
5				"	"	"	"	76	64		"	"	"		
6				"	"	"	"	77	76		"	"	"		
7				"	"	29.74	"	"	"		"	"	"		
8				"	"	"	78	86	"		"	"	"		
9				"	"	"	79	"	77		"	"	"		
10				"	"	29.72	80	88	80		"	"	"		
11				"	"	29.70	82	89	"		"	"	"		
No on															

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon ☉	0	"
Longitude by Chronometer from Forenoon Observations ☉	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"
Variation of the Compass by Azimuth ☉ observed at	0	"
Water expended during the preceding 24 hours		250 gallons.
Water Condensed during the preceding 24 hours		250 "
Water remaining on hand fit for me at Noon		1440 "
Coal consumed during the preceding 24 hours	tons	1075 lbs.
Coal remaining on hand at Noon	70	50 "

P. M.													
1			S	2		29.70	80	78	80	b	Cum Nimb	4	
2			"	"		"	"	"	"	bcpqrl	"	"	
3			"	"		"	"	"	"	"	"	"	
4			"	"		"	"	"	"	bc	Cir Cum	"	
5			"	"		"	79	77	76	orq	Cum Nimb	"	
6			"	"		29.73	78	76	74	"	"	"	
7			"	"		29.74	76	75	73	or	"	"	
8			"	"		"	75	"	"	"	"	"	
9			NE	"		29.76	74	73	71	bc	"	4	
10			SSE	"		29.80	72	71	70	bcl	"	5	
11			S	"		"	"	69	69	"	"	8	
Mi d.			"	"		"	"	"	68	bc	"	9	

Longitude by Chronometer from Afternoon Observations ☉	0	"	"
Longitude by Chronometer Observations *	0	"	"
Variation of the Compass by Amplitude observed at Sunset	0	"	"
Variation of the Compass by at	0	"	"

under the command of Commander Winfield Scott Schley
Wednesday June 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Moderate S[outher]ly breeze. Cum. clouds. Moon rose at 1. Obscured moonlight. Banked fires in two boilers. Steam pressure 35 lbs. Temp of bunkers 130°. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Pleasant, with light to moderate breeze from South. Fires banked in two boilers. Average steam 35 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear, warm, pleasant. Light breeze from S. At 9 U.S.S. "Tallapoosa" came in and moored at Navy Yard. At 11.30 stopped distilling and hauled fires. Transferred to U.S.S. "Franklin" (in hospital) Thomas Cresley (2.C.F.) and Wallace Vanderbick (1.C.B.)

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Warm, with light to moderate breeze from South. About 1.30 a thunder squall passed over, working to N. and E. Cast off from dock and dropped down about one ships length to make room for "Ajax". Quarterly Board of Survey condemned 4 boxes (2 bbls) bread. Received in Navigator's Department 3 bbls, 150 galls, of oil, 4 log slates and 4, 14 lb hand leads.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Overcast, rainy. Passing squalls from W. Midshipmen T. D. Griffin and W.H. Allen reported for duty. At 5.45 received onboard the following men who were transferred to the "Leleigh" for temporary duty on the 29th inst, Viz. Fred Cashman (1.C.F.) Edm Ford (Lds E.F.) Mich. Clay (2c Gr) Fred. Porter (Sea) Herman Meyer (1.C.B.) W. G. Smith (O.S.2.C.) John Hall (1.C.B.) Fred. Wolfinger (O.S.2.C.) F. C. Jones (1.C.B.) John Hashagan (O.S.2.C.) James V. Marion (1.C.B.) P. H. Emmons (O.S.2.C.) G. N. Fisher (1.C.B.) James B. Stanley (1.C.B.) and Benj. T. Cox (S. Stew.). At 6.30 U.S.S. "Ossipee" came up and moored at Navy Yard. At 7 U.S.S. "Ajax" came up and moored ahead of ship. Lieutenant Commander John Schouler left the ship on two days leave.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and cool. Light variable breeze. Lightening to N. and E. Ebb tide.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Direction of Current, by symbols.	State of the Sea.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A.M.															
1				Calm	0		29.80	68	66	66		bc	Cir Cum		3
2				"	"		"	"	"	"		"	Cir Cum Nimb		5
3				"	"		"	"	"	"		"	"		"
4				"	"		"	"	"	"		"	"		"
5				"	"		29.82	67	67	"		"	"		"
6				"	"		29.84	"	68	"		"	"		"
7				"	"		29.86	"	"	67		"	"		"
8				"	"		29.90	68	70	69		"	"		"
9				"	"		"	"	71	70		"	Cum Nimb		4
10				WSW	0-1		29.91	69	72	"		"	"		5
11				"	"		29.92	73	74	74		"	"		1
Noon				"	"		29.94	"	75	"		"	"		0

Record of the sail the vessel is under at end of watch.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		340 gallons.
Water Received during the preceding 24 hours		1700 "
Water remaining on hand fit for me at Noon		2920 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69 "	2015 "

P,M															
1		WSW	1		29.91	75	76	75		o		Cum Nimb		0	
2		"	"		29.90	"	77	"		"	"	"		"	
3		"	"		"	76	78	76		bc	"	"		4	
4		"	"		"	77	"	77		"	"	"		2	
5		W	"		29.92	78	79	78		"		Cir Cum		6	
6		WNW	"		29.93	"	"	78		"	"	"		8	
7		NNW	0-1		29.94	"	"	77		"	"	"		"	
8		Calm	0		"	"	"	78		"		Cir Cum Str		"	
9		"	"		29.96	77	78	76		"	"	"		9	
10		"	"		"	76	76	74		b		None		10	
11		"	"		30.00	74	"	"		"	"	"		"	
Mid.		"	"		"	"	74	"		"	"	"		"	

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Thursday June 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Barometer steady.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Cloudy and warm. Light airs from N. and W. Made preparations for coaling ship. At 7 coal schooner hauled alongside.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy but pleasant. Light airs from N.S.W. Commenced coaling ship at 8.30. Received from U.S.S. "Leleigh" with their bags and hammock, the following men, Viz. Patrick Dunny (1.C.F.) Thomas Potts (1.C.F.) belonging to the "Manhattan". James F. Lyons (1.C.F.) belonging to the "Saugus". Henry Penenger (2.C.F.) Ed. Benningham (1.C.F.) belonging to the "Mahopac". Robert Kennedy (Mach) belonging to the "Catskill". A. J. Lauham (1.C.F.) John Anderson (Lds, E.F.) E. S. Tierney (Lds. E.F.) T. M. Laylor (Lds E.F.) Patrick J. Sullivan (Mach) Dennis Steele (1.C.F.) Michael Gallaher (Lds E.F.) John F. Spencer (Lds E.F.) and John Calhoun (Lds E.F.) belonging to the "Hartford". Barometer rising.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light airs from W.S.W. Coaling ship. Turned into store (Pay Department) 27 boxes coffee 40 lbs each. Midshipmen Richard Henderson and W. G. Hannum reported onboard for duty, having been detached for temporary duty on monitor.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light airs from N. and W. Engaged in coaling ship. Received onboard from U.S.S. "Ajax" the following men with their bags and hammocks, Viz. John Moris (1.C.F.) Ed. Bartley (2.C.F.) belonging to the "Mahopac". Robert Corcoran (2.C.F.) Wm. H. Davidson (2.C.F.) belonging to the "Saugus". John C. Ryan (1.C.F.) John Leary (2.C.F.) belonging to the "Catskill". W. Harken (Mach) John Coleman (Lds) Luke Boody (Lds) J. W. Boyd (Lds) Dennis B (Lds) Timothy Parker (1.C.F.) Thomas Hobson (2.C.F.) belonging to the "Hartford". Henry Simpson (2.C.F.) and C. M. Thompson (Lds C.F.) belonging to this vessel, were returned on board from "Ajax".

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Clear and calm. Ebb tide.

(Signed) James K. Cogswell

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in tenths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				NW	0-1		30.00	74	73	73		bc	Cum	9		
2				Calm	0		30.01	"	"	71		"	"	"		
3				"	"		30.02	"	72	70		"	"	"		
4				"	"	"		"	"	"		"	Cum Str	"		
5				S	"	"	71	"	71			"	Cir Cum	"		
6				"	"		30.08	"	"	"		"	"	"		
7				"	"	"	72	73	72			"	"	7		
8				"	"		30.09	73	75	73		"	"	9		
9				"	"		30.08	76	79	75		"	"	5		
10				"	"		30.06	78	83	78		"	"	1		
11				"	"	"	79	80	"			"	"	0		
Noon				"	"		30.05	"	81	"		"	"	4		

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon ☉	0			"
Longitude by Chronometer from Forenoon Observations ☉	0			"
Current during the time	Knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ☉ observed at	0		"	"
Water expended during the preceding 24 hours				340 gallons
Water				"
during the preceding 24 hours				2580
Water remaining on hand fit for me at Noon				"
Coal consumed during the preceding 24 hours	1	tons	435	lbs.
Coal remaining on hand at Noon	154	"	1860	"

P,M									
1	S	1	30.02	81	83	81	bc	Cir Cum	6
2	"	"	"	83	86	83	"	"	"
3	"	"	29.	84	"	"	"	"	5
4	"	"	29.	85	87	84	"	"	4
5	Calm	0	29.	86	89	85	"	"	3
6	S	1	29.	"	"	87	"	"	2
7	SW	"	"	"	87	85	"	"	0
8	W	"	30.00	84	83	84	op	"	1
9	NW	3-7	30.05	81	80	78	orqtl	Cum Nimb	0
10	WSW	2-4	30.08	80	77	76	"	"	"
11	NNW	1-4	30.09	78	78	"	orlt	"	"
Mid.	SW	"	"	"	"	"	or	"	"

Longitude by Chronometer from Afternoon Observations	⊙	°	'	"
Longitude by Chronometer Observations	*	°	'	"
Variation of the Compass by Amplitude	observed at Sunset	°	'	"
Variation of the Compass by	at	°	'	"

under the command of Commander Winfield Scott Schley
Friday June 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Ebb tide. Moon rose at 2.40.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Cool. Pleasant. Light S[outherly] breeze. Cir. Cum. clouds. Ebb tide. At 6 called all hands to muster and found the following men absent without leave Viz, David Dalton (Ships Cook) Benj. T. Cox (Stg. Stew) Wm. G. Smith (O.S.2.C.) James Gillespie (O.S.2.C) W. J. Lindon (O.S.2.C) Ed. Moran (1.C.B.) and J. V. Marion (1.C.B.) Sent a reward of \$20.00 each for their apprehension and delivery aboard this ship. At 6.15 commenced coaling ship from schooner alongside. Received 5 tons 1300 lbs.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Cloudy. Warm. Light S[outherly] airs. Coaling ship. At 8.05 W. G. Smith (O.S.2.C.) and James Gillespie (O.S.2.C.) were brought aboard, having left the ship without permission, and confined in double irons to await further orders. M. W. Moore (1.C.B.) was confined in double irons for skulking below and insolence to Master at Arms. A Board of Survey composed of the following officers Viz. Lieut. Modman, Boatswain Brown and Carpenters Mather went aboard this ship and surveyed the following articles in Equipment Dept, one 12 inch Manilla hawser, two anchor buoys (53 lbs each) one kedge buoy (28 lbs) two buoy ropes (4 inch) 45 fathoms each, one buoy rope (4 1/2 inch) 16 fathoms. They recommended as follows; that the hawser be kept for further use and the part cut off turned into store, one anchor buoy lost, one anchor buoy and one kedge buoy be turned into store and buoy rope lost.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Pleasant. Light S[outherly] airs. Cir. Cum. clouds. Flood tide. Received in Equipment Dept, 7 3/5 tons coal, 150 fathoms 3 1/4 Manilla rope, 150 fathoms 3 in. Hemp rope, 150 lbs Roundline. In Department of Construction and Repair 28 lbs White lead, 2 lbs Copper tacks, 2 lbs Iron tacks, 4 lbs Iron cut nails, 50 lbs Oakum. In Pay Department 10 bbls Pork, 9 boxes coffee, 6 half bbls Beans, 12 half bbls Sugar, 8 boxes Preserved Meat. Finished coaling at 3.15.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy and warm. Light airs from S. and W. Passing showers. Released W. G. Smith (O.S.2.C.) and James Gillespie (O.S.2.C.) from cell and confined them in fore passage. Received in Pay Department 27 boxes Coffee and 66 bags of bread.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast. Cool. Rainy. Occasional thunder and lightening squalls from S. and W. Nimb. clouds. Flood tide.

(Signed) Richard G. Davenport
Lieut

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.		State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. atfd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.				
A,M														
1				Calm	0	30.06	76	76	74		bc	Cum Nimb	6	
2				"	"	"	"	"	"		"	"	"	
3				S	1	30.09	75	75	"		"	"	3	
4				Calm	0	30.09	74	"	"		o	"	0	
5				SW	1	30.07	"	74	"		bc	"	1	
6				"	"	"	"	75	"		"	"	"	
7				"	2	30.09	75	76	75		"	"	3	
8				"	"	30.10	"	"	"		"	"	2	
9				"	"	30.09	76	78	76		"	"	1	
10				"	"	"	78	80	77		"	"	"	
11				SSW	"	30.05	80	83	79		"	"	"	
Noon				"	"	30.03	82	85	81		"	"	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		400 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2180
Coal consumed during the preceding 24 hours	5 tons	325 lbs.
Coal remaining on hand at Noon	149	1635

P,M														
1				SSW	2	30.00	84	86	82		bc	Cir Cum	1	
2				"	"	29.97	85	87	83		"	"	2	
3				"	3	29.95	86	88	84		"	"	3	
4	Steaming down Elizabeth River			"	"	29.91	"	"	"		"	"	5	
5				SSE	2	29.90	85	84	82		"	Cum Nimb	1	
6				SW	3-5	29.97	83	82	80		bcql	"	0	
7	At Anchor			"	2	30.03	76	78	76		orq	"	"	
8				S by W	3	29.97	"	76	75		oq	"	"	
9				S	3-6	29.99	77	77	77		"	"	"	
10				SSW	"	"	76	75	75		"	"	"	
11				"	"	30.00	"	76	"		"	"	"	
Mid.				"	3-7	"	"	"	"		"	"	"	

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations *	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

under the command of Commander Winfield Scott Schley
Saturday June 9th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Calm. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Calm. Pleasant. Light airs from S. and W. Cum. Nimb. clouds. Barometer rising slowly.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy. Warm. Light airs from S. and W. By order of Commander in Chief the following officers reported for passage to Port Royal. P.A. Engineer A. R. McKay, Asst Engineer C. A. Strange and Asst Surgeon C. T. Hibbert. Received Patrick Dalton (2.C.F.) from "Leleigh" for temporary duty and passage to Port Royal. Received in Equipment Department 18 hickory brooms. Received for transportation one dingy complete except sails, spars, and two boat hooks, also the following stores for "New Hampshire", 1 set dingy oars, 12 boxes, 1 Bale oakum, 8 tar buckets, 2 boat davits, 4 oars, for sea weed 1 box. At 8.30 Lieut. Comdr John Schouler returned from leave. At 8.40 started fires in 6 boilers. Steam pressure 10 lbs. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Light S.S.W. breeze. Cir. Cum. clouds. Received on board feet lumber for "New Hampshire". At 12.55 pilot came aboard. At 3 cast off for Navy Yard dock. At 3.05 set spanker and took it in at 3.08. At 3.10 hoisted jib, at 3.15 hauled it down. Draught of water forward 14 feet 3 in, Amidships 15 feet 3 in, Aft 16 feet 2 in. Standing down Elizabeth River in charge of pilot. Steaming six boilers. Average pressure 60 lbs. Revolutions 51. Discharged Wm Durvois (B. Maker) and G. N. Fisher (1.C.B.) from this ship and from the Naval Service, by order of Bureau of Equipment and Recruiting. By order of Commanding Officer, Issac Fassett (Bugler) was disrated to Lds, from this date inclusive. Received in ships company J. B. Vella Lds, he having enlisted for the cruise of the "Essex".

(Signed) Wainwright Kellogg
Lieut.

From 4 to 6 P.M. Cloudy, warm. Light breeze from S.S.E. first hour, wind in squalls from S.S.W. during last hour. Steaming out of Hampton Roads in charge of pilot. At 6 heavy thunder squalls passed over, stopped until it cleared up. At end of watch Cape Henry Light bore (pc) S.E. by E. At 4 exchanged numbers with U.S.S. "Hartford". At 4.10 made Int[errogatory]. 4915. "Hartford" answered 904. At 4.15 "Hartford" made 5034, answered.

(Signed) Sam. C. Lemly
Ensign.

From 6 to 8 P.M. Overcast. Squally Rainy. Light breeze from S. and W. At 6.40 came to anchor in Lynnhaven Bay in 7 fathoms water, let go starboard anchor and veered to 30 fathoms chain. Banked fires under six boilers. Distilling. Cape Henry Light bore S.E. 1/2 E. distant 2 miles.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Overcast. Cool. Fresh breeze with squalls from S.S.W. Cum Nimb clouds. Slack water at 10. Swung to the ebb at 11. Fires banked in six boilers. Average pressure 50 lbs. Distilling.

(Signed) Richard G. Davenport.
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots Fathoms.		Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weath- er by symbol s.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in faths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. alt'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				S by W	4-6		29.99	76	76	74		bc	Cir Cum Nimb	4	S	
2				"			29.97	"	"	"		"	"	"	"	
3				"			29.94	75	75	"		"	Cir Cum	1	"	
4				"			29.95	"	"	73		"	"	"	"	
5				SW by S			29.97	"	76	74		"	Cir Nimb	2	"	Jib, main try sail
6				S			29.98	"	"	"		o	"	0	"	and spanker
7	8	0	s by e 3/4 e	S.S.W			29.99	74	73	72		bc	"	1	"	"
8	8	4	"	"			29.94	"	"	"		"	Cir Cum	3	"	"
9	8	6	"	"			29.95	77	69	68	60	"	"	"	"	"
10	9	0	"	"			"	70	71	70	65	"	"	8	"	"
11	9	0	"	SW by S			29.97	72	74	72	68	"	"	"	"	"
Noon	8	6	"	S by W			"	"	"	"	64	"	"	6	"	None.

Distance run by Log since preceding Noon	knots		fathoms.	
Latitude by D. R. at Noon	o	'		"
Longitude by D. R. at Noon	o	'		"
Latitude by Observations at Noon ☉	o	'		"
Longitude by Chronometer from Forenoon Observations ☉	o	'		"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	o	"		"
Variation of the Compass by Azimuth ☉ observed at	o	"		"
Water expended during the preceding 24 hours			300 gallons.	
Water Condensed during the preceding 24 hours			450 "	
Water remaining on hand fit for me at Noon			2330 "	
Coal consumed during the preceding 24 hours	10	tons	755	lbs.
Coal remaining on hand at Noon	139	"	880	"

P.M.																
1	8	0	S by E 3/4 S	S by W	5		29.97	75	79	77	72	bc	Cir Cum	6	S	
2	7	0	"	S	6		"	77	81	78	74	"	"	7	"	
3	7	2	"	"	"		"	78	"	"	"	"	"	"	"	
4	2	0	"	"	"		29.98	"	"	"	"	"	"	4	"	
5	6	4	s 1/4 w	S by W	6		"	"	80	77	77	"	"	7	H	
6	6	6	"	"	5		29.99	"	79	78	76	"	Cir Nimb	3	"	
7	7	0	"	"	"		30.00	"	80	"	"	om	"	0	"	
8	7	0	"	"	5-7		30.02	"	"	"	"	"	"	"	"	
9	1	0	"	"	"		"	79	79	"	79	oqr	"	0	"	
10	5	4	s 3/4 w s by w S by W	"	"		"	"	"	"	80	"	"	"	"	
11	1	0	ssw sw by w	"	"		"	78	81	77	79	"	"	2	"	
Mid.	5	2	SW 1/4/ W	"	"		30.05	"	"	"	"	oqrl	"	4	"	

Longitude by Chronometer from Afternoon Observations ☉	o	'		"
Longitude by Chronometer Observations	o	'		"
Variation of the Compass by Amplitude	* observed at Sunset			"
Variation of the Compass by	at			"

under the command of Commander Winfield Scott Schley
Sunday June 10th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Strong S. by W. breeze. Cir. Cum. Nimb. clouds. Fires banked in six boilers. Average pressure 50 lbs. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Cloudy and cool. Fresh breeze from S. and W. At 5.20 got underway and stood out to sea. At 5.30 pilot left ship. At 6.05 took departure Cape Henry Light bore (pc) W.S.W. distant 2 miles. At 6.25 set jib, main trysail and spanker. Got cast of lead each hour, bottom from 7 to 8 fathoms. By order of Comdg Officer, James Bolger (1.C.F.) G. W. Brown (2.C.F.) John Calhoun (Lds C.F.) James Bancroft (2.C.F.) John Coleman (Lds) and G.W. Boyd (Lds) were confined in double irons, on full rations, for refusing duty. Steaming six boilers. Pressure 60 lbs. Revolutions 48. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Fresh breeze from S. and W, smooth sea. At 9.30 inspected at quarters and mustered crew, immediately afterwards prayer were read. At 9.30 passed Currituck Light. At 11.50 took in fore and aft sail. Several sail in sight bound to N. Got soundings every hour. At 10 got bottom at 10 fathoms. Steaming six boilers. Distilling. Released W. G. Smith (OS2C) and James Gillespie (OS2C) from confinement and placed them prisoners at large. Released M.W. Moore (1.C.B.) from confinement and returned him to duty.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Pleasant. Hazy. Fresh S. by W. breeze. Slowed down and got cast of lead every hour with following results – 11 faths, 13 faths, 17 fath, 14 fath, no bottom. At 2 sighted Body Island Light bearing abeam. At 3.15 changed course to S. 1/4 W. Paused several sail bound to N. and one beating to S. Steaming six boilers. Average pressure 65 lbs. Rev, 54. Distilling. Clouds banking up to N.W.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Clear. Clear. Pleasant. Misty. Strong S. by W. breeze. Cir. Cum. Nimb. clouds. At 4.40 got cast of lead in 13 3/4 faths, and at 5.35 got cast in 13 1/2 fathoms. Three sail in sight at end of watch. Barometer rising. Steaming six boilers. Average pressure 50 lbs. Rev, 42.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Overcast. Misty. Fresh breeze from S. by W. Got cast of lead every half hour. At 7.35 made Hatteras Light bearing W. by S. Several sail in sight. Steaming six boilers. Pressure 62 lbs. Rev, 51. At end of watch Hatteras Light bore W.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Cloudy and cool. Strong wind from S. by W. sea rough. At 8.10 changed course to S. 3/4 W. At 8.30 changed course to S. by W. At 10.20 changed course to S.S.W. At 10.40 changed course to S.W. by S. At 11 changed course to S.W. 1/4 W. At 12 Cape Hatteras Light bore N.N.W. 1/4 W. Steaming six boilers. Ship pitching considerably. Passed several sail and one steamer bound North.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.		WINDS.			Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.		Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	6	0	SW 1/4 W	S by W	3-6		30.01	77	80	78	79	bcq	Cum Nimb	1	R	
2	5	0	"	"	"		29.98	79	"	"	"	"	"	"	"	
3	5	0	"	"	"		"	"	"	"	"	"	"	0	"	
4	4	0	"	"	3-5		"	"	"	"	"	"	"	"	"	
5	5	0	"	"	"		"	78	"	77	78	"	"	1	"	
6	5	4	"	"	"		30.01	"	"	78	76	"	"	"	"	
7	6	0	"	"	"		30.02	"	"	"	"	"	"	3	"	
8	6 1	2 0	" SW 1/2 W	"	"		30.03	"	"	"	"	"	"	"	"	
9	3 5	0 0	SW 1/4 W	"	"		30.04	"	8	"	"	ogm	"	0	"	
10	7	4	"	SSW	4		30.05	"	"	"	"	bcpm	"	2	"	
11	8	0	"	"	"		"	"	"	"	"	bc	"	"	"	
Noon	4 3	6 0	" SW	"	5		30.06	"	"	"	"	o	"	0	"	

Distance run by Log since preceding Noon 156 knots 0 fathoms.

Latitude by D. R. at Noon 34 ° 02 ' 12 "N

Longitude by D. R. at Noon 76 ° 44 ' 00 "W

Latitude by Observations at Noon ☉ 34 ° 14 ' 02 "N

Longitude by Chronometer from Forenoon Observations ☉ 76 ° 24 ' 00 "W

Current during the time 1 knots fms. per hour, setting to the N 54° E.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at ° " "

Water expended during the preceding 24 hours 330 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2000 "

Coal consumed during the preceding 24 hours 13 tons 1875 lbs.

Coal remaining on hand at Noon 125 " 1245 "

P.M.																
1	7	6	SW by W	SSW	5		30.07	79	80	78	77	om	Cum Nimb	0	R	
2	6	4	"	"	4		"	"	82	"	"	"	"	"	"	
3	6	2	"	"	"		30.10	80	"	80	"	"	"	"	M	
4	7	0	"	"	"		30.08	79	81	78	"	"	"	"	"	
5	7	6	"	"	3-4		30.07	"	80	"	76	bcmp	"	1	"	
6	8	0	sw by w 1/4 w	"	3		30.09	"	"	"	77	"	"	"	"	
7	8	4	"	"	"		30.07	78	79	77	"	bcp	"	"	H	
8	8	4	"	"	"		30.10	"	"	"	76	bc	"	2	"	
9	8	2	"	"	"		30.12	"	"	"	"	o	"	0	M	
10	3	6	sw 1/2 w	"	"		30.14	"	"	"	"	bcpl	"	2	"	Jib, main try
	3	6	sw by w	"	"											
11	4	0	"	"	"		30.16	"	78	"	"	or	"	0	"	sail, spanker
	4	0	sw by w 1/4 w	"	"											
Mid.	9	4	"	"	"		30.15	"	"	76	"	"	"	"	"	

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Monday June 11th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Fresh breeze with squalls from S. and W. Plowed down and got cast of lead every hour as follows, 37 fathoms, no bottom at 30, 47 fathoms. No bottom at 35. At 12.30 lost sight of Hatteras Light bearing North. Passed two steamers bound North. Average pressure 55 lbs. Revolutions 49.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Strong breeze with squalls from S. by W. Cum. Nimb. clouds. Got cast of lead every hour. No bottom 30 fathoms. At 7 hoisted jib, immediately hauled it down. Sea rough. Barometer rising. Steaming six boilers. Average pressure 60 lbs. Revolutions 43. Sighted several steamers during watch.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy. Misty. Fresh breeze from S. and W. Got cast of lead each hour. At 9.20 inspected at quarters. At 8.20 changed course to S.W. by W. 1/4 W. At 11.35 changed course to S.W. Steaming six boilers. Average pressure 68 lbs. Revolutions 53.

(Signed) Sam. C. Lemly
Lieut.

From Merid. to 4 P.M. Overcast, cool and misty. Moderate breeze from S.S.W. At 12.13 changed course to S.W. by W. Got cast of lead every hour, in 20 and 21 fathoms. Released the following men from confinement and sent them to duty. James Bolger (1.C.F.) G. W. Brown (2.C.F.) John Calhoun (Lds.C.F.) J. Bandcroft (2.C.F.) J. Coleman (Lds) G. W. Boyd (Lds) Steaming six boilers.

(Signed) J. K. Cogswell
Lieut.

From 4 to 6 P.M. Overcast. Cool. Passing showers. Moderate breeze from S. and W. Stopped and got cast of lead every hour, in 20 fathoms. At 5 changed course to S.W. by W. 1/4 W. Passed a sail bound North. Steaming six boilers. Average pressure 60 lbs. Revolutions 50.

(Signed) Richard G. Davenport
Lieut.

From 6 to 8 P.M. Cloudy. Cool. Passing showers. Cum. Nimb. clouds. Light S.S.W. breeze. Heavy ground swell. At 6.40 got cast of lead in 19 fathoms. At 7.55 got cast of lead in 19 fathoms. Steaming six boilers. Average pressure 65 lbs. Revolutions 49.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast, cool, with passing showers. Moderate breeze from S.S.W. Got cast of lead every hour, bottoms from 12 to 20 fathoms. At 10.45 set jib, main try sail and spanker. Steaming six boilers. Average pressure 68 lbs. Revolutions 58.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at't d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1	10	2	sw by w 1/4 w	S	5		30.14	78	78	76	77	bc	Cum Nimb	4	M	Jib, main try sail
2	10	4	"	"	"		"	"	"	"	"	"	"	9	"	and spanker
3	9	4	"	"	"		30.12	"	"	"	"	"	"	"	S	"
4	9	0	"	"	"		"	"	"	"	"	"	"	"	"	"
5	9	0	"	"	3-5		30.13	"	80	78	"	"	Cir Cum	5	"	"
6	9	4	"	"	"		"	"	"	"	"	"	Cir Cum Nimb	3	"	"
7	9	6	"	S by W	"		30.15	"	"	79	78	"	Cum Nimb	1	"	"
8	10	2	"	"	"		"	"	"	78	"	bcp	"	"	"	"
9	8 2	0	sw by w 3/4 w	SSW	"		30.17	"	"	"	79	"	"	"	"	"
10	9	6	"	"	"		"	"	"	"	"	"	"	"	"	"
11	10	0	"	NNW	3		"	"	"	"	80	bc	"	"	"	"
Noon	12	0	"	"	"		"	"	"	79	"	o	"	"	"	"

Distance run by Log since preceding Noon	212 knots	6 fathoms.
Latitude by D. R. at Noon	32 °	19 ' 00 "N
Longitude by D. R. at Noon	79 °	57 ' 00 "W
Latitude by Observations at Noon ☉	32 °	15 ' 46 "N
Longitude by Chronometer from Forenoon Observations ☉	79 °	49 ' 00 "W
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		350 gallons.
Water Condensed during the preceding 24 hours		50 "
Water remaining on hand fit for me at Noon		1700 "
Coal consumed during the preceding 24 hours	10 tons	1635 lbs.
Coal remaining on hand at Noon	114 "	1850 "

P.M.																
1	2 7	4 6	sw by w 3/4 w W by S	NNW	3		30.16	78	80	78	79	or	Cum Nimb	0		
2	9	6	"	"	3-5		30.17	"	"	"	"	org	"	"		
3	9	0	"	NW	3		30.15	"	76	75	"	or	"	"		
4	6 2	6 2	n by w 1/2 b	"	"		30.16	76	"	"	"	"	"	"		
5	In charge of pilot.			"	"		30.18	75	77	76	"	"	"	"		
6				"	"		30.20	76	"	"	"	"	"	"		
7	At anchor			NE	"		"	"	"	"	"	"	Nimb	"		
8	Port Royal			"	"		"	"	"	"	"	"	"	"		
9	S.C.			"	"		"	"	"	75	"	"	"	"		
10				"	"		30.21	"	76	"	"	"	"	"		
11				"	"		"	"	"	"	"	"	"	"		
Mid.				"	"		30.22	"	74	"	"	"	"	"		

Longitude by Chronometer from Afternoon Observations ☉	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley
Tuesday June 12th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Fresh breeze from South. Sea smooth. Got soundings every hour, 18 and 20 fathoms. Steaming six boilers.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast. Cool. Passing showers during last hour. Moderate breeze from S. and W. Stopped engines and got cast of lead first three hours of watch in 18, 17 and 17 fathoms water. Steaming six boilers. Average pressure 65 lbs. Revolutions 57.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Cloudy. Light breeze from S.S.W. shifting to N.N.W. at end of watch. Cum. Nimb. clouds. Passing showers. At 8.25 took in fore and aft sail. At 8.45 changed course to S.W. by W. 3/4 W. At 10 got cast of lead in 13 1/2 fathoms. At 11 set jib, main try sail and spanker. At 11.45 took in fore and aft sail. At 11.55 got cast of lead in 16 fathoms. By order of Commanding Officer, Geo. H. Pinder was placed in solitary confinement, on bread and water, for neglect of duty. Steaming six boilers. Average pressure 68 lbs. Revolutions 58.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Overcast, with rain squalls from N. and W. At 12.15 changed course to S. by W. At 12.30 set jib, main try sail and spanker. At 1.10 set main topsail. At 1.45 called all hands, shortened and furled sail. At 2.30 took in fore and aft sail. At 3.45 sighted Martins Industry Light bearing (pc) N. by W. changed course to N. by W. 1/2 W. Steaming six boilers.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 6 P.M. Overcast. Rainy. Light N.W. breeze. At 4.15 pilot came aboard. Standing into Port Royal Harbor. Steaming six boilers.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Overcast. Rainy. Light N.E. breeze. At 6.06 came to anchor at Naval anchorage Port Royal S.C. in five fathoms water, veering to 30 fathoms starboard chain. At 7.20 banked fires in four boilers and hauled in two. Started distiller. Riding to flood. Draught of water forward 13 feet 11 in, Amidships 15 feet, Aft 16 feet.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Overcast. Rainy. Nimb. clouds. Light N.E. breeze. Swung to ebb at 9.30. Banked fires in four boilers. Average pressure 35 lbs. Distilling.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.	BAROMETER.		TEMPERATURE.				State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.						Air Wet Bulb.
A, M.															
1				ENE	3-5		30.22	76	75	75	oqr	Cum Nimb	0		
2				"	"		30.21	"	"	74	"	"	"		
3				"	"		30.20	"	"	"	"	"	"		
4				"	"		"	"	"	"	"	"	"		
5				"	3		30.22	"	78	76	or	"	"		
6				"	2		"	"	"	"	"	"	"		
7				E	"		"	"	"	77	"	"	"		
8				"	"		"	"	"	"	"	"	"		
9				NE	3		30.21	77	76	76	"	"	"		
10				"	"		"	"	77	"	"	"	"		
11				"	"		"	"	"	78	"	"	"		
No on				"	"		"	"	80	"	"	"	"		
Distance run by Log since preceding Noon															
											knots	fathoms.			
Latitude by D. R. at Noon											°	'	"		
Longitude by D. R. at Noon											°	'	"		
Latitude by Observations at Noon ☉											°	'	"		
Longitude by Chronometer from Forenoon Observations ☉											°	'	"		
Current during the time											knots	fms. per hour, setting to the			
Variation of the Compass by Amplitude ☉ observed at Sunrise											°	"	"		
Variation of the Compass by Azimuth ☉ observed at											°	"	"		
Water expended during the preceding 24 hours											300 gallons.				
Water Condensed during the preceding 24 hours											300 "				
Water remaining on hand fit for me at Noon											1900 "				
Coal consumed during the preceding 24 hours											2	tons	195	lbs.	
Coal remaining on hand at Noon											112	"	1655	"	
P, M.															
1				SE	4		30.21	78	80	78	op	Cum Nimb	0		
2				"	"		30.20	"	"	"	"	"	"		
3				"	"		20.19	79	81	79	"	"	"		
4				"	3-5		30.17	80	"	"	o	"	"		
5				ESE	3		"	"	"	"	"	"	"		
6				"	"		30.18	79	"	78	"	"	"		
7				"	"		30.19	"	80	"	or	"	"		
8				"	"		30.20	78	"	"	"	"	"		
9				"	1		"	"	"	"	bc	"	2		
10				Calm	0		30.22	"	79	77	bcr	"	"		
11				E	2		"	"	"	"	bc	"	"		
Mi d.				"	"		"	"	"	"	"	"	1		
Longitude by Chronometer from Afternoon Observations ☉											°	'	"		
Longitude by Chronometer Observations											°	'	"		
Variation of the Compass by Amplitude											°	'	"		
Variation of the Compass by											°	'	"		

under the command of Commander Winfield Scott Schley
Wednesday June 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast until 4 A.M. Overcast. Rainy. Fresh breeze from N. and E. Riding to ebb. Slack water at 3.15. By order of Commanding Officer, Walter Thomas (Lds) stood four hours extra duty. Banked fires under four boilers. Steam pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast. Raining. Light breeze from N. and E. Swung to flood at 4.15. At 6.40 Health Officer came aboard. At 7 pilot left ship. Fires banked in four boilers.

(Signed) Sam. C. Lemly, Ensign.

From 8 to Merid. Overcast. Rainy. Light breeze from N. and E. Cum. Nimb. clouds. Turned over stores to "New Hampshire" and dingy to "Pawnee". At 9 Commanding Officer paid official visit to "New Hampshire". Swung to ebb at 10.30. By order of Commanding Officer, Char. Zeller (O.S.2.C.) and Wm E. Haggensbotham (O.S.2.C.) were rated O.S. from May 1st inclusive. Also Char. I. Owen (1.C.B.) to (O.S.2.C.) from June 1st inclusive. Ensign S. C. Lemly, Midshipmen W. H. Allen and W. G. Hannum, also Asst. Engineer G. R. Ransom were detached from this ship and ordered to temporary duty aboard the "Saugus". Asst. Surgeon's Tanner and C. T. Hibbert, also Asst. C. A. Strange, passengers, left the ship for their respective vessels. Banked fires in four boilers. Average pressure 30 lbs. Distilling. By order of Commanding Officer, G. H. Pinder (Lds) was released from confinement and returned to duty.

(Signed) Wainwright Kellogg, Lieut.

From Merid. to 4 P.M. Overcast. Cool. Passing showers. Moderate breeze from S. E. Cum. Nimb. clouds. Riding to flood. Slack water at 3.30. Received the following draft of men from the "New Hampshire" Viz. To "Catskill" two (Mach) three 1.C.F. two (2.C.F.) and six Lds, C. F. To "Saugus" one Mach, two 1.C.F. four 2.C.G. By order of Senior Officer Present, George B. Sweeny (Sea), condemned by Medical survey, was transferred to this ship for passage to Naval Hospital Portsmouth Va. Banked fires under four boilers. Steam pressure 40 lbs. Distilling.

(Signed) Richard G. Davenport, Lieut.

From 4 to 8 P.M. Weather overcast, with occasional showers of rain. Wind light from E.S.E The following draft of men were sent Viz. To "Mahopac" two Mach, three 1.C.T. 5 2.C.F. 5 Lds, C.F. To "Manhattan" one Mach, 5 1.C.F. one 2.C.F. 5 Lds, C.F. Banked fires in four boilers.

(Signed) Wainwright Kellogg, Lieut.

From 8 to Midnight. Cloudy and pleasant. Light breeze from East. At 11.30 swung to ebb tide. Banked fires in four boilers. Distilling.

(Signed) James K. Cogswell, Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0			"
Longitude by D. R. at Noon	0			"
Latitude by Observations at Noon ☉	0			"
Longitude by Chronometer from Forenoon Observations ☉	0			"
Current during the time	Knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0			"
Variation of the Compass by Azimuth ☉ observed at	0			"
Water expended during the preceding 24 hours				400 gallons
Water			during the preceding 24 hours	900 "
Water remaining on hand fit for me at Noon				2400 "
Coal consumed during the preceding 24 hours	2	tons		lbs.
Coal remaining on hand at Noon	139	"		1925

P.M.										
1	SE	3	30.22	80	82	78	bc	Cum Nimb	3	
2	"	"	30.20	"	"	"	"	"	4	
3	"	"	"	"	"	"	"	"	3	
4	"	"	"	"	"	"	"	"	"	
5	ESE	"	"	"	"	"	"	"	"	
6	ENE	"	30.19	"	81	78	"	"	"	
7	"	"	"	"	"	79	"	"	0	
8	Calm	"	30.18	"	"	"	"	"	"	
9	"	0	"	"	"	78	"	Cir Cum	5	
10	"	"	30.17	"	80	"	"	"	"	
11	"	"	"	"	"	"	"	"	"	
Mid.	"	"	"	"	"	"	"	"	"	
Longitude by Chronometer from Afternoon Observations ☉								°	'	"
Longitude by Chronometer Observations					*					
Variation of the Compass by Amplitude					observed at Sunset		°	'	"	
Variation of the Compass by					at		°	'	"	

under the command of Commander Winfield Scott Schley
Thursday June 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Light E[aster]ly breeze. Cum. Nimb. clouds. Riding to ebb. Banked fires in four boilers. Steam pressure 25 lbs. Distilling. By order of Commanding Officer, Walter Thomas (Lds) stood four hours extra duty.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light E[aster]ly airs. Cum. Nimb. clouds. Slack water at 4.30, swung to flood at 5. Received in Pay Department 168 lbs fresh beef and 168 lbs vegetables. Banked fires in four boilers. Steam pressure 40 lbs. Distilling.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Clear and pleasant with moderate breeze from E. At 8.30 spread fires. At 9.30 engines reported ready. At 9.50 hove up starboard anchor and went alongside "Pawnee". Commenced coaling ship. Received on board during watch 2 tons 798 lbs. Banked fires in four boilers at end of watch. Midshipmen T. D. Griffin and Richard Henderson were detached and ordered to U.S.S. "Manhattan".

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from S. E. Coaling ship. Transferred the following men, with description lists to the "Saugus" for temporary duty Viz. Charles Wilson (Sea) Fred Porter (Sea) Charles Zeller (O.S.) James Bryson (O.S.) Francis Shields (O.S.2.C.) Lewis Potts (O.S.2.C.) P. H. Emmons (O.S.2.C.) Harry Hill (O.S.2.C) Richard Jones (Lds) Michael Hayes (1.C.F.) W. D. Saddler (2.C.F.) G. R. Wilson (Mach) Francis Giles (Lds C.F.) Riding to ebb tide. Received 18 tons of coal.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast. Cool. Pleasant. Light E[aster]ly breeze. Cum. Nimb. clouds. Slack water at 4.15, swung to flood at 5. at 6.05 "New Hampshire" made to this ship signal No. 3093. At 6.20, having 30 224/2240 tons of coal from "Pawnee", spread fires, called all hands up anchor, hauled off and came to with starboard anchor in five fathoms water veering to 25 fathoms chain. Banked fires in four boilers. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Calm. Swung to ebb at 11.30. Banked fires in four boilers.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Port Royal S.C.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbol s.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.			
A,M														
1				Calm	0		30.19	78	78	76	bc	Cum Nimb	8	
2				"	"		30.20	"	"	"	"	"	7	
3				"	"		"	"	"	"	"	"	"	
4				Easterly	0-1		"	"	"	"	"	"	"	
5				SSE	1		"	"	"	77	oc	Cir Str	4	
6				"	"		"	"	"	79	"	"	"	
7				"	"		"	79	"	78	bc	"	1	
8				"	"		"	80	81	79	"	"	"	
9				"	2		"	"	"	"	"	Cir Cum	2	
10				"	3		30.21	"	82	"	"	"	3	
11				"	"		"	81	"	81	"	"	4	
Noon				SE by S	"		"	"	"	"	"	"	5	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		600 "
Water remaining on hand fit for me at Noon		2750 "
Coal consumed during the preceding 24 hours	5 tons	1575 lbs.
Coal remaining on hand at Noon	134 "	350 "

P,M														
1			SE by S	2		30.20	80	82	83	bc	Cir Cum	6		
2			"	"		30.18	"	"	"	"	"	"		
3			"	"		"	"	"	"	"	"	"		
4			"	"		30.15	"	"	"	"	"	"		
5			SSE	"		"	81	"	79	"	Cum	7		
6			"	"		"	"	"	"	"	"	"	8	
7			"	"		"	"	"	"	"	"	"	7	
8			"	"		"	"	"	"	"	"	"	"	
9			"	"		30.16	"	82	78	"	Cir Cum	8		
10			"	"		30.17	"	81	"	"	"	"	"	
11			"	"		30.18	80	"	"	"	"	"	9	
Mid.			"	"		"	"	"	"	"	"	"	"	

Longitude by Chronometer from Afternoon Observations ☉	°	' "	
Longitude by Chronometer Observations *	°	' "	
Variation of the Compass by Amplitude observed at Sunset	°	' "	
Variation of the Compass by at	°	' "	

under the command of Commander Winfield Scott Schley
Friday June 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and calm. Light airs from E. latter part of watch. Riding to the ebb.

(Signed) James K. Cogswell. Lieut.

From 4 to 8 A.M. At 5.15 slack water. At 5.45 swung to flood. Received on board fresh provisions for crew. By order of Commanding Officer, David Dalton (Sh Cook) was disrated there from to O.S. from the 9th inst, inclusive and Philip Kincade was rated from Lds, to Ships Cook from the 10th inst, inclusive. Pleasant though cloudy, with light breeze from S. and E. Banked fires under four boilers. Distilling.

(Signed) Asa Walker Lieut.

From 8 to Merid. Cloudy. Cool. Pleasant. Light S.S.E. breeze. Cir. Cum. clouds. Riding to flood. At 10 made Int. 5455, "New Hampshire" ans[wered]. 904. At 10.20 called all hands loose sail. Working party returned from "Saugus". At 12 slack water.

(Signed) Richard G. Davenport Lieut.

From Merid. to 4 P.M. Clear and pleasant with moderate breeze from S. and E. At 1 sent working party to "Saugus". At 1.30 made Int. 4826, "New Hampshire" ans. 904. Furled sail. At 12.30 swung to ebb. At 2.30 made telegraphic signal 0970. 0094. 7123. 0935. 4523. 7672. 9409. 8105. 945. 8314. 9422. 6570. 4210. 0935. 4904. 2599. 5468. 5975. 945. 8988. 7221. 6179. 6381. 4904. 8425. 6335. 5179. 7031. 0970. 6307. 9319. 3821. "New Hampshire" made telegraphic signal 6868. 6180. 265. 9409. 2712. 7694. 0882. 8425.6335. 7031. 756.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear and pleasant. Moderate breeze from S. Transferred to the "Saugus" for temporary use, the following articles 1 chronometer, 1 octant, 1 Nautical Almanac belonging to Navigator's Dept, and 2 20 gall. Beakers from Equipment Dept. Swung to the flood at 6. Placed W.W. Sheldon (OS2C) in solitary confinement, on bread and water, for forty-eight hours, for profanity and insolence to an officer.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Bright starlight. Moderate S.S.E. breeze. Cir. Cum. clouds. Riding to flood. At 11 lighted fires under two more boilers. Banked fires in four boilers. Steam pressure 30 lbs.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SE by E	3		30.18	75	80	78		bc	Cir Cum	8		
2				"	4		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	7		
5				SSE	2		30.17	76	"	"		"	Cum Str	6		
6				S	"		"	78	"	"		"	"	"		
7				"	"		30.18	80	81	79		"	"	7		
8				"	3		"	81	82	80		"	"	8		
9				SSE	"		30.16	83	84	"		"	Cum	"		
10				"	"		"	80	"	"		"	"	"		
11				"	"		"	83	"	"		"	"	"		
Noon	1	0	NE by E	"	"		"	"	"	"		"	"	"		Plain sail to T. G. sails.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		250 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2500 "
Coal consumed during the preceding 24 hours	12	tons 195 lbs.
Coal remaining on hand at Noon	122	" 155 "

P.M																
1	4	0	NE by E	SSE	3		30.17	83	84	80	80	bc	Cir	9	S	T. sails, T.G. sails,
2		6	NE	"	"		"	82	"	"	"	"	"	"	"	M. T. sail, jib,
3	1	6	NE by E	"	4		30.16	"	"	79	"	"	"	"	"	Fore T. M. staysail,
4	5	2	"	"	"		"	"	"	"	"	"	"	"	"	Spanker & Foresail
5	6	4	"	SE	5		30.14	80	81	78	81	"	"	"	"	"
6	6	2	"	"	"		30.13	79	"	"	"	"	"	8	"	"
7	6	0	"	S	3		"	80	"	"	80	"	Cum	"	"	"
8	6	0	"	"	4		30.12	"	80	"	"	"	"	"	"	Same except F. sail.
9	6	0	"	SSE	"		30.11	"	79	"	"	"	"	9	"	"
10	6	2	"	"	"		30.12	"	"	"	"	"	"	8	"	"
11	6	2	"	"	3		"	"	"	"	"	"	Cir Cum	7	"	"
Mid.	6	4	"	S	4		"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	*	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	at	"

under the command of Commander Winfield Scott Schley
Saturday June 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant with light breeze from S. At 1 swung to ebb.
Banked fires in six boilers.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. At 5.55 slack water. At 6.25 swung to flood. Clear and pleasant. At 7.30 got underway, dropped in ahead of "Saugus" and let go starboard anchor under foot. Took tow line from "Saugus". Draft forward 14 feet, Amidships 15, Aft 16 ft. Steam in six boilers.

(Signed) Asa Walker, Lieut.

From 8 to Merid. Clear. Warm. Light S[outher]ly breeze. At 8.05 got underway with "Saugus" in tow, and stood out to harbor under direction of pilot. At 9.45 signaled to "Saugus" Telegraphic code, 3503. 6746. 2200. 8737. 5301. 3108. 9409. 6398. 6886. 0570. 5301. 0088. 3583. 1267. 2326. 7379. 6004. 3748. 8097. At 11 "Saugus" made (telegraphic code) 0935. 8810. 4204. N5. 6886. N10. 6448. 9409. 4092. 3723. 8742. 6155. 8498. At 11.30 pilot left the ship. At 11.30 took departure, Martins Industry Light Ship bore S.S.W. distant 2 1/2 miles. At 11.40 signaled to Saugus" 3166, general code, and 32, telegraphic code. At 11.40 sent up top gallant yards and made sail to top gallants sails. Steaming under six boilers.

(Signed) James K. Cogswell, Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Moderate S.S.E. breeze. Cir. Cum. clouds. At 12.45 feed pipe burst, hauled fires under all boilers. Stopped engines. At 2.40 started ahead with six boilers. Repairing feed pipe. Passed several sail and a steamer bound to S. Average pressure 50 lbs. Average revolutions 47. At 3.35 set F. T. Mst. S. Sail.

(Signed) Richard G. Davenport, Lieut.

From 4 to 6 P.M. Clear and pleasant with moderate breeze from S. and E. One steamer and several sail in sight. Barometer falling slowly. Steaming six boilers. Average revolutions 49. Steam pressure 65 lbs.

(Signed) Wainwright Kellogg, Lieut.

From 6 to 8 P.M. Clear and pleasant. Light S[outher]ly breeze. Sea smooth. Light swell setting to the N. Morris Island Light bore N.W. by N. at end of watch. Hove the lead at 8. 9 fathoms. At 7 took in and furled foresail.

(Signed) James K. Cogswell, Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Moderate S[outher]ly breeze. Cir. Cum. clouds. Moon light until 11 when she set. Got cast of lead each hour of watch with following results 11 fathoms. At 10.35 lost sight of Morris Island Light bearing (pc) W. 3/4 S. and Rattle Snake Shoals bearing (pc) W. 1/2 N. At 11 made Cape Romain bearing (pc) N. by E. 1/4 E. At 11.30 set spanker and fore try sail. Steaming six boilers. Steam pressure 60 lbs. Revolutions 49.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots	Fathoms.	WINDS.		Force.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1	6	4	NE by E	S	4	30.15	78	80	77	80	bc	Cir Cum	7	S	
2	6	2	"	"	"	30.14	"	79	"	"	"	"	6	"	
3	6	4	"	SW	"	30.12	"	"	"	"	"	"	5	"	
4	6	4	"	"	3	"	"	"	"	"	"	"	"	"	
5	5	6	"	SW by W	2	30.14	81	80	80	"	"	Cum Str	"	"	
6	5	0	"	"	"	30.15	"	"	"	"	"	"	4	"	Topsails. T.G. sails,
7	5	4	"	"	"	"	"	"	"	"	"	"	5	"	F. T. Mast stay sail.
8	5	2	"	"	"	30.14	82	"	"	"	"	"	"	"	
9	5	2	"	"	"	"	83	"	"	"	"	Cir Cum	4	"	All plain sail
10	5	6	"	N	3	"	"	"	81	"	"	"	0	"	except royals, jib,
11	6	2	"	"	4	30.13	"	"	"	"	"	"	1	"	spanker T. M. sail.
Noon			"	"	"	"	"	"	"	"	"	"	"	"	

Distance run by Log since preceding Noon	132 knots	2 fathoms.
Latitude by D. R. at Noon	33 °	16 ' 00 "N
Longitude by D. R. at Noon	77 °	19 ' 00 "W
Latitude by Observations at Noon ⊙	33 °	23 ' 14 "N
Longitude by Chronometer from Forenoon Observations ⊙	78 °	08 ' 00 "W
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2250 "
Coal consumed during the preceding 24 hours	16 tons	1035 lbs.
Coal remaining on hand at Noon	105 "	1360 "

P.M															
1	5	6	NE by E	SW by W	4	30.13	80	83	81	79	bc	Cir Cum	5	S	Same
2	6	2	"	"	"	30.08	"	"	"	"	"	"	6	"	"
3	5	4	"	"	"	30.07	"	"	"	"	"	"	3	"	"
4	5	2	"	"	"	30.06	"	"	"	"	"	"	"	"	"
5	5	6	"	SW	3	30.05	"	82	80	79	"	Cum Str	2	"	"
6	5	4	"	"	"	"	"	"	"	"	"	"	"	"	Topsails, T. G. sails.
7	6	-	"	"	4	"	"	81	"	"	"	Cum Nimb	"	"	F. T. Mast, staysail.
8	6	4	"	"	"	30.04	"	"	"	"	"	"	1	"	"
9	4	-	"	"	"	30.10	"	"	78	"	o	"	0	M	"
10	6	-	"	"	"	30.12	"	"	"	"	"	"	"	"	"
11	6	4	"	"	"	"	"	"	"	"	"	"	"	"	"
Mid.	6	4	"	"	"	"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley
Sunday June 17th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant with light breeze from S. and W. At 1.08 Cape Romain Light bore N.W. by N. Got soundings 10 fathoms. At 2.30 took in all fore and aft sail except Fore topmast stay sail. Steaming six boilers. Revolutions 49. Steam pressure 60 lbs.
(Signed) Wainwright Kellogg, Lieut.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from S.W. Ground swell setting to W. Hove the lead once every hour, soundings at 11 and 14 fathoms. Maximum roll 12° to starboard and 13° to port. One steamer and one bark in sight at end of watch.
(Signed) James K. Cogswell, Lieut.

From 8 to Merid. Cloudy. Cool. Pleasant. Moderate W[ester]ly breeze Cir. Cum. clouds. At 9.30 Commanding Officer inspected crew and ship, after which read prayers. Got cast of lead each hour with following results, 13 fs [fathoms], 12 fs, no bottom, 14 fs. At 11.55 exchanged numbers with U.S.S. "Ossipee" bound to S. Steaming six boilers. Steam pressure 60 lbs. Revolutions 46.
(Signed) Richard G. Davenport, Lieut.

From Merid. to 4 P.M. Clear and pleasant with moderate breeze from S. and W. At 12.07 passed U.S.S. "Ossipee" bound to S. Made general signal to "Saugus" 5365. Saugus made signal 33°. 23. 78°. 07. Made signal to "Saugus" 33°. 23, 78°.06. At 2.52 Light Ship bore abeam. Soundings 13 fathoms. Sounded every hour, 16. 13. 15. 8 fathoms. By order of Commanding Officer, W.W. Sheldon (O.S.2.C.) was released from confinement and returned to duty. Steaming six boilers. Revolutions 40. Steam pressure 50 lbs.
(Signed) Wainwright Kellogg, Lieut.

From 4 to 6 P.M. Cloudy and pleasant. Light breeze from S.W. Hove the lead each hour, no bottom 13 fathoms. Sea smooth.
(Signed) James K. Cogswell, Lieut.

From 6 to 8 P.M. Cloudy. Cool. Pleasant. Moderate S.W. breeze. Cum. Nimb. clouds. At 6.30 mustered crew at quarters. At 7.10 took in and furled Foresail. Steaming six. Steam pressure 60 lbs. Revolutions 48. Got two casts of lead, no bottom, 20 fathoms.
(Signed) Richard G. Davenport, Lieut.

From 8 to Midnight. Overcast, with light airs from S. and W. At 8.15 stopped engines. At 8.35 started ahead again. Got cast of lead every hour. 19 to 20 fathoms. Steaming six boilers. Steam pressure 60 lbs. Revolutions 49.
(Signed) Wainwright Kellogg, Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea

Hour	knots		Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface
A.M																	
1	5	4		NE 1/2 E	SW	1		30.12	80	81	79	80	oc	Cum	10	S	
2	6	0	"	"	"	"	"	"	"	"	"	"	bcl	Cir Nimb	9	"	"
3	6	0	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
4	6	0	"		Variable	0-1	"	"	80	"	"	"	"	Cum Str	"	"	"
5	4 1	2 6		NE 1/4 E	WNW	2	"	"	81	"		79	bc	"	8	"	Topsails, F. T. Mst,
6	6	0	"	"	"	1		30.14	"	"	"	"	"	"	9	"	staysail
7	6	2	"	"	"	"		30.15	81	83	84	"	"	"	"	"	"
8	6	4	"	"	"	"		30.14	83	85	"	"	"	"	8	"	"
9	5	6	"		SW by W	"		30.12	"	"	"	"	"	Cum Cir	9	"	"
10	5	6	"	"	"	"		"	"	"	"	"	"	"	5	"	"
11	6	0	"		E	2	"		82	82	80	"	"	"	3	"	"
Noon	5	0	"		E by S	3	"	"	"	"	"	"	"	"	4	"	All Fore and Aft sails.

Distance run by Log since preceding Noon	140 knots	2 fathoms.
Latitude by D. R. at Noon	34 °	48 ' 00 "N
Longitude by D. R. at Noon	75 °	45 ' 00 "W
Latitude by Observations at Noon ⊙	34 °	51 ' 48 "N
Longitude by Chronometer from Forenoon Observations ⊙	75 °	46 ' 00 "W
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at 8 A.M.	1 °	24 " 00 "E
Water expended during the preceding 24 hours		400 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1850 "
Coal consumed during the preceding 24 hours	17 tons	lbs.
Coal remaining on hand at Noon	88 "	360 "

P.M																	
1	3 3	0 0	ne ne 1/2 e	E by S	3		30.10	82	82	80	79	bc	Cir Cum	7	S	Fore and aft sail	
2	5	4	"	ESE	3-4		"	"	"	"	"	"	"	"	"	and Foresail	
3	5	6	"	se by e	4-5		"	"	"	"	"	"	"	"	"	"	
4	5	2	NE 1/4 E	"	5		"	"	"	"	"	"	"	"	"	"	
5	2 3	2 4	N 3/4 E	"	"		"	81	"	"	"	"	"	"	"	"	
6	6	2	"	"	"		30.11	"	"	"	"	"	"	"	"	"	
7	6	2	"	"	3		30.12	"	"	"	"	"	"	"	"	"	
8	6	2	"	"	"		"	80	81	"	"	"	"	"	"	"	
9	5	4	"	S	1-2		"	79	80	78	"	"	Cum Nimb	4	"	"	
10	5	4	"	"	2		30.13	78	"	"	"	"	"	"	"	"	
11	5	4	"	"	1-2		"	"	"	"	"	"	"	"	"	"	
			"														
Mid.	1 5	2 0	n x w 1/2 w	"	1		"	"	"	"	"	"	"	"	"	Topsails F.T.M. of Sail	
Longitude by Chronometer from Afternoon Observations ☉													°	'	"		
Longitude by Chronometer Observations										*	°	'	"				
Variation of the Compass by Amplitude								observed at Sunset			°	'	"				
Variation of the Compass by								at			°	'	"				

under the command of Commander Winfield Scott Schley
Monday June 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Gentle breeze from S. Heat lightening to the N. and W. Got soundings every hour, 18 and 20 fathoms. At 3.30 made Cape Lookout Light from topsail yard bearing N. by E.

(Signed) James K. Cogswell, Lieut.

From 4 to 8 A.M. Clear. Warm. Light W.N.W. breeze. Cir. Cum. Str. clouds. Passed several steamers and sails bound to S. At 4.45 made and heard buoy off Cape Lookout bearing (pc) N.W. 3/4 N. distant about three miles. Changed course to N.E. 1/4 N. Steaming six boilers. Steam pressure 65 lbs. Revolutions 49. Got cast of lead at 5, 6, 7 with following results, 14 fathoms, and no bottom at 12 fathoms.

(Signed) Richard G. Davenport, Lieut.

From 8 to Merid. Clear and pleasant. First part light airs from S. and W., latter part light breeze from E. Soundings every hour, 19 to 20 fathoms. Several steamers bound to S. passed during watch. At 12 changed course to N.E. At 10 sent down topgallant yards. At 11 set all fore and aft sail. Steaming six boilers. Revolutions 44. Pressure 65 lbs.

(Signed) Wainwright Kellogg, Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from S. and E., increasing to fresh breeze towards end of watch. Exchanged Lat. and Long, with "Saugus". Signaled to "Saugus" 5365. At 2.30 passed a large fleet of schooners bound S. At 2.30 sighted Cape Hatteras Light bearing N. 1/2 W. At 3.30 sighted fog buoy off Hatteras. At 12.30 altered N.E. 1/2 E. and at 3 to N.E. 1/4 E.

(Signed) James K. Cogswell, Lieut.

From 4 to 6 P.M. Cloudy. Cool. Pleasant. Light S.E. by E. breeze Cir. Cum. clouds. At 4.22 passed buoy off Cape Hatteras, abeam distant about 10 yards. Changed course to N. 1/4 E. Set topsails and took in fore trysail. Got casts of lead each hour in 11 and 13 fathoms. At 5.30 lost sight of buoy bearing (pc) S. by W. At end of watch Cape Hatteras Light House bore (pc) W 3/4 S. Steaming six boilers. 60 lbs. Revolutions 49. Passed several sail and steam bound to S.

(Signed) Richard G. Davenport, Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from E. Got two soundings, 14 and 13 fathoms. Took in and fueled foresail. Steaming six boilers. Revolutions 49. Pressure 65 lbs.

(Signed) Wainwright Kellogg, Lieut.

From 8 to Midnight. Cloudy and damp. Gentle breeze from S. At 8.30 took spanker, main try sail and jib. At 8.20 lost sight of Hatteras Light. At 8.10 made Body Island Light. At 11.15 changed course to N. by W. 1/2 W. Passed several schooners. At end of watch Body Island Light bore W. by S. 1/2 S. Got soundings every hour, 13, 17 and 14 fathoms. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
At Sea

[illegible]

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ☉ observed at	0	11	11
Water expended during the preceding 24 hours			250 gallons.
Water		during the preceding 24 hours	11
Water remaining on hand fit for me at Noon			1600 11
Coal consumed during the preceding 24 hours	12	tons	1195 lbs.
Coal remaining on hand at Noon	75	11	1405 11

P,M											
1	Standing in for Hampton Roads Va.	WSW	1	30.03	84	84	84	71	bc	Cir Cum	8
2		"	2	30.02	"	85	83	"	"	"	"
3		"	"	"	"	86	86	"	"	"	"
4		"	"	"	"	"	85	"	"	"	"
5		"	"	30.01	"	85	84	"	"	"	"
6		"	"	"	"	"	"	"	"	"	9
7		"	"	30.00	"	"	83	"	"	"	"
8		"	"	"	"	84	"	"	"	"	"
9	At Anchor	Calm	0	"	"	"	82	"	"	"	"
10		SW	1	"	"	"	"	"	"	"	"
11		"	2	29.99	"	"	"	"	"	"	"
Mid.		"	3	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	18
Longitude by Chronometer Observations	*	0	18
Variation of the Compass by Amplitude	observed at Sunset	0	18
Variation of the Compass by	at	0	18

under the command of Commander Winfield Scott Schley
Tuesday June 19th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Damp. Light W.S.W. breeze. Cir. Cum. clouds. Moon set at 12.30. Got cast of lead each hour of watch with following results. Viz. 13. 15. 15. 14 fathoms. At 3.30 lost sight of Body Island Light bearing (pc) S. by W. and made Currituck Light bearing (pc) N.W. 1/2 N. Set spanker try sail and jib. Steaming six boilers. Steam pressure 60 lbs. Revolutions 46.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant with light breeze ~~breeze~~ from S. and W. At 6.25 Currituck Light bore abeam. Got soundings every hour, 13. 12 1/2. 12 1/2 fathoms. At 7.44 changed course to N.N.W. 1/2 W. At 4.40 set foresail. Steaming six boilers. Revolutions 49. Pressure 65 lbs.

(Signed) Wainwright Kellogg, Lieut.

From 8 to Merid. Clear and warm. Light airs from W. Standing in towards Cape Henry. At 12.05 took pilot aboard. At 10.30 furled sail. At 12.15 carried away part of the port taffrail by the "Saugus" slurring to port.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Light W.S.W. breeze. Cir. Cum. clouds. At 1.15 passed Cape Henry Light House. At 3 exchanged numbers with "Harford" at anchor off Old Point. At 3.55 slowed down and communicated with Flagship. Steaming six boilers. Steam pressure 60 lbs. Revolutions 41.

(Signed) Richard G. Davenport
Lieut.

From 4 to 6 P.M. Clear and pleasant. Calm. Steaming up towards Norfolk. At 5.30 "Saugus" cast off hawser. Called all hands bring ship to anchor. Stopped off health station and waited for Health Officer.

(Signed) Wainwright Kellogg
Lieut.

From 6 to 8 P.M. Clear and warm. Light airs from the W. At 6.30 Health Officer from Norfolk came aboard and granted pratique. Steamed up to Norfolk and at 7.15 shackled port chain to the "Farewell buoy". Banked fires under six boilers. Draft of ship. Forward 13 feet 6 in, Amidships 14 feet 8 in, Aft 15 feet 10 in. David Dalton (Ships Cook) and Benj T. Cox (St Stew) were considered deserters from this date, having been absent 10 days without permission.

(Signed) James K. Cogswell, Lieut.

From 8 to Midnight. Clear. Warm. Light S.W. breeze. Cir. Cum. clouds. Riding to ebb. Slack water at 11. Swung to flood at 11.50. Moonlight. By order of Commanding Officer, Geo. T. Sweeny (Sea) was sent to the U.S. Hospital ashore. W. J. Lindon (O.S.2.C.) J. V. Marion (1.C.B.) and Ed. Moran (1.C.B.) were sent aboard by Commanding Officer of Receiving Ship. to whom they were delivered by the Police authorities. By order of Commanding Officer they were placed in double irons for safe keeping. Banked fires six boilers. Steam pressure 30 lbs. Started distilling at 10.30.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots		fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		11
Variation of the Compass by Azimuth ☉ observed at	0		11
Water expended during the preceding 24 hours			250 gallons.
Water			1350
Water remaining on hand fit for me at Noon			1350
Coal consumed during the preceding 24 hours	2	tons	95 lbs.
Coal remaining on hand at Noon	73	"	1310 "

Longitude by Chronometer from Afternoon Observations	⊙	1	18
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley , U. S. Navy.
Wednesday June 20th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Calm. Swung to flood at 12.05. Banked fires. Distilling.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. At 5.05 slack water. At 5.30 swung to ebb tide. Clear and pleasant. Light breeze, hauling from N.N.W. to N.E. during watch. Banked fires in four boilers.

(Signed) Asa Walker
Lieut.

From 8 to Merid. Cool and pleasant. Moderate breeze from N.E. Swung to flood tide at 10.30. Sent working party of 20 to "Saugus" to assist in discharging ammunition. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Cool. Pleasant. Moderate N.E. breeze. Cir. Cum. clouds. Riding to flood. Banked fires in six boilers. Steam pressure 30 lbs. Distilling. The following articles in Pay Dept. were surveyed and thrown overboard, condemned, Viz. 1 keg pickles, 57 lbs, Cont. marks, J. H. Redfield N.Y. J C Eldridge Naval Inspector, March 1875. Received from Paymaster Key West Florida. Geo. W. Kalen (Boy) who deserted from this ship at Philadelphia Pa. Returned and by order of Commanding Officer was retained aboard to await decision of Navy Department. At 3.30 pilot came aboard. Spread fires under boilers and made preparations for slipping and getting underway.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and pleasant with fresh breeze from N. and E. At 4.45 cast off from buoy and stood up the Elizabeth river. At 5.15 made fast to buoy and hauled alongside wharf at Navy Yard. The "Saugus" came up and moored to wharf at Navy Yard at 6. Banked fires under four boilers.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Cool and pleasant. Light N.E. Hauled fire under two boilers.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				NE	3		30.15	76	78	76		bc	Cum Nimb	0		
2				ENE	"		"	"	77	75		"	"	"		
3				"	"		"	75	76	73		"	"	"		
4				S	"		"	"	"	74		"	"	"		
5				ESE	2		30.14	"	"	75		"	"	"		
6				S	1		30.12	"	77	76		"	"	"		
7				SW	"		30.10	"	"	"		"	"	"		
8				"	"		30.08	78	79	"		"	"	"		
9				"	"		30.07	"	"	79		"	"	"		
10				"	2		30.04	79	80	80		"	"	4		
11				"	3		30.02	80	85	84		"	"	5		
Noon				"	4		30.00	82	"	"		"	"	6		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water Condensed during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		1830 "
Coal consumed during the preceding 24 hours	1 tons	435 lbs.
Coal remaining on hand at Noon	72 "	875 "

P.M																
1			SSW	2		29.96	83	87	84		bc	Cum	7			
2			"	"		29.93	84	88	85		"	Cir Cum	6			
3			"	"		29.87	86	89	"		"	"	7			
4			SW by S	"		29.84	"	90	"		"	"	8			
5			"	"		29.79	87	89	"		"	"	"			
6			"	"		29.78	"	84	"		"	"	9			
7			"	"			88	"	"		"	"	"			
8			"	"		"	"	"	"		"	"	8			
9			SSW	"		29.80	86	86	82		"	"	9			
10			"	"		"	81	85	"		"	Cir	8			
11			"	"		29.79	80	84	"		"	Cir Cum Nimb	3			
Mid.			"	"		29.81	"	"	"		"	"	2			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations *	°	' "	
Variation of the Compass by Amplitude observed at Sunset	°	' "	
Variation of the Compass by at	°	' "	

under the command of Commander Winfield Scott Schley
Thursday June 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Cool. Pleasant. Obscured moonlight. Cum. Nimb. clouds. Light variable breeze. Banked fires in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Overcast and misty. Wind light and variable from E.S.E. to S.S.W. Distilling. Fires banked under two boilers.

(Signed) John Schouler
Lieut Comdr.

From 8 to Merid. Clear and pleasant with light breeze from S. and W. Ensign S. C. Lemly, Midshipmen W. H. Allen and W. G. Hannum reported aboard for duty. The men who were sent for duty onboard "Saugus" returned. U.S. Steamer "Hartford" came up the river and moored to wharf at Navy Yard.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant with light breeze from S.S.W. Lieut. Asa Walker and Chief Engineer P.A. Rearick left the ship on leave of absence of one week from the 22nd inst. Carpenters gang engaged in removing towing chock. Barometer falling. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Sam. C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant with light breeze from S. and W. Hauled fires under all boilers. Stopped.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear and pleasant, first part, afterwards cloudy. Light breeze from S.S.W.

(Signed) Sam. C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1				SSW	3		29.79	80	80	80		bc	Cir Cum	5		
2				"	"		"	"	"	"		"	"	"		
3				W	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	Nimb	0		
5				N	"		29.79	"	"	78		"	"	"		
6				"	"		29.80	"	"	"		"	Cum	2		
7				"	"		"	"	"	"		"	"	3		
8				NNE	2		29.82	"	81	79		"	"	5		
9				"	"		29.86	"	82	80		"	"	4		
10				N	"		29.87	"	"	"		"	Cum Nimb	3		
11				"	"		29.88	81	83	"		"	"	2		
Noon				"	"		29.87	82	"	"		"	"	1		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		260 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1570 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	72	" 600 "

P,M																
1				NNE	5		29.89	81	82	80		bc	Cum	4		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				"	"		29.94	78	79	75		"	Cum Nimb	3		
6				"	"		29.95	"	"	"		"	"	"		
7				"	"		29.99	"	"	"		"	"	2		
8				"	4		29.97	76	"	73		"	"	5		
9				"	3		30.02	"	76	74		"	Cir	"		
10				"	"		30.02	"	"	"		"	"	"		
11				"	2		30.05	"	"	"		"	"	"		
Mid.				"	"		30.04	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Friday June 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, except last hour which was rainy.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from N. C.M. Thompson (Lds C.F.) and John Horrigan (Lds) were found to be absent from the ship without permission.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and pleasant. Light breeze from N. At 9.30 inspected at quarters. By order of Commanding Officer, W. J. Lindon (O.S.2.C.) J. V. Marion (1.C.B.) and Ed. Moran (1.C.B.) were released from double irons and confined in single irons on full rations.

(Signed) Sam. C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and cloudy. Fresh breeze from N. and E. At 3 the "Hartford" started down in tow of "Pinta", but anchored and got steam. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy but pleasant. Fresh breeze from N.N.E. Commander W. S. Schley left the ship on leave of absence of one week from 23rd inst.

(Signed) Sam. C. Lemly
Ensign.

From 8 to Midnight. Cloudy and cool. Light breeze from N. and E. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			NNE	2		30.08	73	73	70		bc	Cir Cum	5		
2			"	"		"	72	72	"		"	"	8		
3			"	4		"	"	"	"		"	"	"		
4			"	"		30.10	71	70	69		"	"	"		
5			NE	"		30.14	70	69	67		"	"	"		
6			"	"		30.21	68	68	66		"	"	"		
7			"	"		30.23	"	"	"		"	"	"		
8			"	"		30.24	"	"	"		"	"	9		
9			"	3		30.25	"	69	67		"	"	"		
10			"	"		"	69	70	"		"	"	7		
11			"	"		"	70	71	68		"	"	6		
Noon			"	"		"	"	72	69		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water Received during the preceding 24 hours		1400 "
Water remaining on hand fit for me at Noon		2800 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	72	325 "

P.M															
1			NE	3		30.23	72	74	71		bc	Cir Cum	7		
2			"	"		30.21	"	"	"		"	"	"		
3			"	"		30.20	73	75	"		"	"	"		
4			"	"		"	"	74	"		"	"	"		
5			"	2		30.18	72	72	"		"	"	8		
6			"	"		"	"	"	"		"	"	"		
7			"	"		30.16	"	"	"		"	"	9		
8			"	"		"	"	"	"		"	"	"		
9			ENE	"		"	"	"	70		"	"	"		
10			"	"		"	71	71	69		b	None	10		
11			"	1-2		"	69	69	"		"	"	"		
Mid.			"	"		"	"	"	68		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Saturday June 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light breeze from N.N.E. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Cool. Pleasant. Light N.E. breeze. Flood tide.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and cool. Moderate breeze from N.E.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Light N.E. breeze. Turned flood at 2.30. Received in Equipment Department 1400 galls, fresh water. Captain's Clerk Arthur Schley left the ship for a weeks leave.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and cool. Light breeze from N.E. Sent liberty party ashore. Confined John Mason (Mach) to the limits of berth deck to await further orders, for attempting to smuggle liquor. P.A. Paymaster J. D. Hurlburt left the ship on one weeks leave of absence.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Cool. Light E.N.E. airs Tide ebb.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			E	1		30.16	68	68	67		bc	Cur Cum	9		
2			"	"		"	"	"	"		"	"	"		
3			"	"		"	"	"	"		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			Calm	0		30.14	69	68	68		b	None	10		
6			"	"		30.12	70	70	70		"	Cir Cum	9		
7			"	"		30.11	71	"	"		"	"	"		
8			"	"		"	72	72	"		bc	"	"		
9			S	1		30.12	71	74	72		"	"	8		
10			"	"		30.09	73	"	73		"	"	6		
11			"	"		30.10	74	77	74		"	"	3		
Noon			"	"		30.07	75	78	76		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2550 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	72	50 "

P.M															
1			S	1		30.05	78	80	78		bc	Cir Cum	3		
2			"	"		30.02	"	82	"		"	"	5		
3			"	"		30.00	80	83	79		"	"	"		
4			"	"		29.98	"	"	"		"	"	2		
5			WSW	"		"	82	"	"		"	"	"		
6			"	"		29.97	"	"	"		"	"	"		
7			SW	"		"	"	82	"		"	Cir Cum Str	3		
8			"	"		"	"	"	"		"	"	2		
9			S	"		"	80	80	78		"	"	4		
10			"	"		"	"	"	"		"	"	5		
11			"	"		"	"	"	"		"	"	"		
Mid.			"	"		"	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "
	at	

under the command of Commander Winfield Scott Schley
Sunday June 24th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light airs from E. Confined Lewis Potts (OS2C) for one hour for being drunk and noisy. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Calm. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Clear and pleasant. Light S[outher]ly airs. Ebb tide. Cir. Cum. clouds. At 9.30 mustered and inspected crew at quarters.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear and pleasant with light airs from S. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light S.W. airs. Flood tide. Cir. Cum. Str. clouds.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant with light airs from S. Bright moonlight.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				S	3		29.97	79	79	78		bc	Cir Cum	8		
2				"	"		"	78	78	77		"	"	7		
3				"	"		"	76	76	75		"	"	2		
4				"	"		"	"	"	"		"	"	8		
5				SW	1		29.99	"	"	"		"	Cum Nimb	2		
6				"	"		30.00	"	"	"		"	Cum Str	9		
7				"	"		"	"	76	76		"	"	"		
8				"	"		29.99	"	"	77		"	"	"		
9				"	3		29.98	78	80	80		"	Cir Cum	"		
10				"	"		29.97	80	84	82		"	"	8		
11				"	4		29.95	85	86	83		"	"	"		
Noon				"	5		29.92	"	88	85		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2300 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	" 2015 "

P.M																
1			WSW	2		29.88	87	90	85		bc	Cir Cum	7			
2			"	"		29.86	"	"	86		"	"	5			
3			"	2-3		"	88	"	"		"	Cum Nimb	4			
4			"	3		29.84	"	"	"		"	"	0			
5			N by W	2		29.88	85	85	82		"	"	2			
6			NNE	1		29.91	84	83	"		"	"	7			
7			ENE	0-1		29.92	"	84	"		"	"	8			
8			"	"		29.94	83	83	"		"	"	"			
9			Calm	0		29.96	82	82	80		bcl	"	"			
10			"	"		"	"	"	"		bc	Cum"	9			
11			"	"		"	"	"	79		"	"	"			
Mid.			"	"		"	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "
at		

under the command of Commander Winfield Scott Schley
Monday June 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Cir. Cum. clouds. Light S. breeze. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear and pleasant with light S.W[ester]ly airs. Engaged in discharging ammunition.

(Signed) Samuel C. Lemly
Lieut.

From 8 to Merid. Clear and pleasant with moderate breeze from S. Discharged and sent to Port Norfolk 76 tanks of powder, 71 XI in shell, 183 IX in shell, 56 rifle shell and 10 boxes boat ammunition. End of watch engaged in preparing to set up lower rigging. At 10 mustered at quarters.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant first part, clouding over latter half of watch with passing showers. Wind light from W.S.W. Engaged in setting up lower rigging and topmast back stays. At 2.50 "Pinta" left the yard for Hampton Roads.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast and rainy first part, afterwards clear and pleasant. Light variable airs. Engaged in setting up lower rigging and topmast back stays. Midshipmen Richard Henderson and T. D. Griffin reported for duty. Lieutenant Wainwright Kellogg left the ship on leave of absence for one week. Condemned and threw overboard one can of preserved beef. Contract Marks, N.Y. and Texas Beef Preserving Co, Naval Inspector, J. E. Eldridge N.Y. Oct. 1874.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and warm. Calm. Lightening to S. first part of watch.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. attd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		29.98	80	80	78		bc	Cum	9		
2			"	"		"	"	"	"		"	"	"		
3			"	"		"	"	"	"		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			"	"		29.97	76	77	76		bcf	"	"		
6			"	"		29.99	"	78	77		bc	"	"		
7			"	"		30.00	77	79	"		"	"	"		
8			"	"		30.04	78	81	79		b	None	10		
9			NW	2		30.03	80	83	81		bc	Cir	9		
10			"	"		30.02	82	84	82		"	"	"		
11			"	"		30.00	83	86	83		"	"	"		
Noon			"	"		29.98	85	89	84		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2050 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	" 1740 "

P.M															
1		S	2			29.96	87	91	85		bc	Cir	1		
2		SW by S	"			29.94	"	92	86		"	"	"		
3		"	"			29.87	89	93	"		b	None	10		
4		"	"			29.86	90	94	88		"	"	"		
5		"	"			29.84	92	"	"		"	"	"		
6		"	"			29.82	93	95	89		"	"	"		
7		"	1			29.83	92	94	"		"	"	"		
8		"	"			"	"	93	87		"	"	"		
9		"	"			29.82	89	87	84		bcf	Cir	9		
10		"	"			29.84	87	86	"		"	"	"		
11		ESE	"			"	"	"	"		"	Cir Cum	4		
Mid.		"	"			29.86	83	85	"		"	"	2		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Tuesday June 26th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather clear and calm. Flood tide. Passing showers.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Calm. Warm. Tide turned ebb at 6. At 8 loosed sail.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear and pleasant. Light airs from N. and W. At 8.05 "Franklin" made general signal 4826, answered. At 8.10 furled sail. Crew engaged in setting up standing rigging. At 11.25 made interrogatory signal 2984. "Franklin" answered 904. Barometer falling slowly. Ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Hot. Light airs from S. and W. Cleaned bilge under aft shot locker. Engaged in setting up standing rigging. Barometer falling slowly. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Pleasant. Light airs from S. and W. Slack water at 5.30. Turned flood at 6. Crew engaged in setting up standing rigging. Cirrus clouds.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear first part, afterwards cloudy. Light breeze from N. and E. Moon rose at 8.45. Ebb tide.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in faths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at f.d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M.																
1				ENE	1		29.80	82	85	84		bc	Cir Str	3		
2				"	"		29.88	"	83	81		"	Cir Cum	6		
3				NW	"		"	"	82	80		"	"	3		
4				"	"		"	"	81	79		"	"	4		
5				"	0-1		29.89	80	80	"		"	"	"		
6				"	"		29.91	79	"	"		"	"	3		
7				"	"		29.92	"	"	"		"	"	2		
8				"	1-2		29.93	"	"	78		"	"	6		
9				Calm	0		"	80	82	80		"	Cum	0		
10				"	"		29.95	"	"	"		"	Cir Cum	2		
11				NNE	1		"	"	"	"		"	"	3		
Noon				"	"		"	83	86	84		"	"	4		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	o	'	"
Longitude by D. R. at Noon	o	'	"
Latitude by Observations at Noon ⊙	o	'	"
Longitude by Chronometer from Forenoon Observations ⊙	o	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"	"
Variation of the Compass by Azimuth ⊙ observed at	o	"	"
Water expended during the preceding 24 hours			250 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1800 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	71	"	1465 "

P,M									
1	ENE	2	29.94	84	86	84	bcp	Cum Nimb	5
2	E by N	"	29.93	"	"	"	"	"	"
3	"	"	29.92	"	"	"	"	"	3
4	"	3	29.91	"	85	83	"	"	4
5	"	2	29.92	83	83	82	bc	"	2
6	SE	3	29.93	"	"	80	"	"	4
7	"	2	29.96	81	82	"	"	"	3
8	SE by S	"	"	80	"	79	"	"	1
9	ENE	"	"	"	81	"	"	"	4
10	"	"	"	"	80	78	"	"	"
11	"	"	29.97	78	78	77	bcp	"	1
Mid.	"	"	29.99	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	18
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Wednesday June 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Cool. Pleasant. Light variable breeze. Obscured moonlight. Ebb tide. Cir. Cum. Str. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear. Warm. Light N.W[ester]ly airs. Cir. Cum. clouds. Ebb tide. Barometer rising slightly.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy. Warm. Calm first part of watch, light airs from N.N.E. latter part. At 9.30 inspected at quarters. Drilled 1st and 2nd Divisions at great guns. Marine Guard at small arms. Engaged in setting up standing rigging. Turned to ebb at 11.30. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Pleasant. Cur. Cum. Nimb clouds. Passing showers. At 2 made interrogatory signal 2984 to "Franklin". Answered 904. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Cloudy. Warm. Light airs from S. and E. Engaged in setting up standing rigging. Ebb tide. Barometer steady last two hours.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Cool. Passing showers last two hours. Cir. Cum. Nimb. clouds. Tide turned ebb at 11.45. Obscured moonlight.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va,

Hour	knots	Fathoms.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1				SE by S	2	29.98	77	76	77		o	Cir Cum	0		
2				"	3	"	"	80	"		op	"	"		
3				"	"	"	76	76	75		bcp	"	1		
4				"	"	"	"	"	"		o	"	"		
5				E	1	30.01	75	"	"		bc	Cum Nimb	"		
6				N by N	"	30.03	74	75	74		"	"	2		
7				"	2	30.04	"	"	"		"	"	3		
8				"	"	"	"	"	"		"	"	1		
9				"	"	"	"	"	"		"	"	"		
10				"	3	30.04	75	74	75		"	"	0		
11				"	"	30.03	"	"	"		o	"	"		
Noon				"	"	"	"	"	"		or	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	i "
Longitude by D. R. at Noon	o	i "
Latitude by Observations at Noon ⊙	o	i "
Longitude by Chronometer from Forenoon Observations ⊙	o	i "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊙ observed at	o	" "
Water expended during the preceding 24 hours		250 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		1550 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	" 1190 "

P.M															
1			E by N	3	30.04	75	76	75		o	Cum Nimb	0			
2			"	4	"	"	"	"		"	"	"			
3			ENE	"	30.06	"	75	"		"	"	"			
4			"	3	"	74	"	74		"	"	"			
5			"	2	30.05	"	74	"		or	"	"			
6			"	"	"	"	75	"		o	"	"			
7			"	"	"	73	73	"		bc	"	3			
8			"	1-2	"	"	"	73		"	"	8			
9			"	2	30.06	"	"	"		"	"	"			
10			"	"	"	"	"	72		"	"	"			
11			"	"	"	"	"	"		"	"	7			
Mid.			E by N	"	30.08	72	"	"		"	Cir Cum	8			

Longitude by Chronometer from Afternoon Observations ⊙	o	i "
Longitude by Chronometer Observations *	o	i "
Variation of the Compass by Amplitude	o	i "
Variation of the Compass by	o	i "
at		

under the command of Commander Winfield Scott Schley
Thursday June 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast first two, and last hours of watch. Cool. Pleasant. Light breeze from S.E. by S. Ebb tide. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy but pleasant. Light airs from E. Barometer rising. William Barker (Lds) absent from the ship without leave.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light E. by N. breeze. Cum. Nimb. clouds. At 9.15 inspected at quarters. Exercised Co. A at small arms. Co. B at single sticks. By order of Commanding Officer, W. D. Jenkins (O.S.2.C.) was confined in single irons, on full rations.* ~~for being absent without leave.~~ Slight sprinkle of rain last hour. Tide turned ebb at 11.30. Men from Navy Yard came aboard to work in Engineers Department. Received in Pay Department 156 lbs, fresh beef and 156 lbs. vegetables.

*To await the action of Commanding Officer.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Overcast. Cool. Rainy last hour. Moderate breeze from N. and E. Ebb tide. Barometer rising.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Overcast. Rainy. Cum. Nimb. clouds. Light E.N.E. breeze. At 6.30 made interrogatory signal 2985 to "Franklin". Answered 904. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Cool. Light breeze from E.N.E. Flood tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1				ENE	2	30.08	72	73	71		bc	Cir Cum	8		
2				"	"	"	"	"	"		"	"	"		
3				"	"	"	"	"	"		"	"	"		
4				"	"	"	"	"	"		"	"	"		
5				NNE	"	30.10	71	71	70		"	"	9		
6				"	"	30.13	"	"	"		"	"	"		
7				"	"	30.14	"	72	71		"	"	"		
8				"	"	30.16	"	"	"		"	"	"		
9				"	"	30.20	72	73	72		"	"	8		
10				"	"	30.19	"	"	73		"	"	7		
11				"	"	"	73	75	"		"	"	"		
Noon				NE	"	30.18	74	"	72		"	"	8		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water Received during the preceding 24 hours		1800 "
Water remaining on hand fit for me at Noon		1250 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	910 "

P.M															
1				NE	2	30.18	74	75	74		bc	Cir Cum	8		
2				ENE	"	30.10	75	76	"		"	"	"		
3				"	"	30.14	76	77	"		"	"	"		
4				"	"	30.13	"	"	"		"	"	"		
5				E by N	"	30.14	"	"	75		"	"	9		
6				"	"	30.13	"	"	"		"	"	"		
7				E	1-2	30.15	"	76	"		b	None	10		
8				"	1	"	"	"	"		bc	Str	9		
9				"	"	30.18	74	73	72		"	"	"		
10				SE	"	30.17	73	72	71		b	None	10		
11				Calm	0	30.18	"	"	70		b	"	"		
Mid.				"	"	"	71	71	"		bc	Str	9		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Friday June 29th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light airs from E.N.E. Cir Cum clouds.
Flood tide. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light N.E. breeze. Flood tide. At 7.45 made interrogatory
signal 5455. "Franklin" answered 904. At 8 loosed sail.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Chief Engineer P.A. Rearick returned from leave. At 9.30 inspected at
quarters. Stationed crew for fire quarters. Weather clear and pleasant. Light breeze from N. and
E. Flood tide.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light airs from N. and E. Ebb tide. At 1.45 made
signal 4826. "Franklin" answered 904. At 1.50 furled sail. At 2.20 made signal 2984. "Franklin"
answered 904. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Cool. Pleasant. Cir. Cum. clouds. Light E[aster]ly breeze. F. E. Cross
(Eng Yeo) left the ship on one weeks leave. Ebb tide. Received on board 1800 galls. fresh
water.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from S. and E. during first part, afterwards
calm. Bright moonlight. Slack water at 11.30.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A.M														
1				Calm	0		30.19	70	70	68	b	None	10	
2				"	"		"	69	68	67	bc	Cir Str	9	
3				"	"		"	68	"	"	"	Str	"	
4				S and W	0-1		30.20	"	"	"	"	Cum Str	"	
5				S	"		30.22	67	"	"	"	Cir Cum	"	
6				"	"		"	"	"	"	"	Cir	"	
7				"	"		"	68	69	68	"	"	"	
8				"	"		30.23	69	71	70	"	"	"	
9				WSW	1		30.21	71	75	73	"	"	"	
10				"	"		30.20	73	79	77	"	"	"	
11				"	"		30.19	76	81	79	"	"	"	
Noon				"	"		30.16	78	84	80	"	"	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		250 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	" 640 "

P.M														
1			SSW	1		30.14	81	86	82	bc	Cum	9		
2			SW by W	"		30.13	82	"	"	"	"	"		
3			"	"		30.08	84	87	"	"	"	"		
4			S by W	"		30.06	"	"	"	"	"	"		
5			"	"		30.04	88	86	82	"	"	"		
6			"	2		30.02	"	"	"	"	"	7		
7			S	"		"	"	"	81	"	Cum Str	5		
8			"	"		30.03	85	84	"	"	"	3		
9			"	"		30.05	83	83	80	"	Cum	9		
10			"	"		"	82	81	79	"	"	"		
11			"	2-3		30.06	80	80	77	bcq	Cir Str	"		
Mid.			"	3-4		30.07	"	79	76	"	"	8		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Saturday June 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Cool. Calm. Bright moonlight. Very bright ray of Northern Light, which set at 2 to 3. Ebb tide. Cir. Cum. clouds.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light airs from S. At 5.40 "Ossipee" left the Navy Yard. Tide turned flood at 8.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light breeze from S. and W. Flood tide. Barometer falling. At 9.30 Commander W. S. Schley and Captains Clerk Arthur Schley returned from leave.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Warm. Light airs from S. and W. Lieutenant Commander John Schouler left the ship on one weeks leave of absence. At 2.30 the "Pinta" and at 3.20 the "Tallapoosa" left the Navy Yard. Cum. clouds. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 P.M. Clear and pleasant during first part, partially overcast during last hour of watch. Light airs from S. and E. Ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear. Cool. Pleasant. Light breeze from S. with moderate breeze squalls from. By order of Commanding Officer, W. H. Simms (W.R.S.) stood four hours extra duty. Moon rose at 10.30. Barometer rising. Cir. Str. clouds. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon ☉	0	1	"
Longitude by Chronometer from Forenoon Observations ☉	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			300 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			2600 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	71	"	365 "

P,M									
1	SW	2-4	29.95	86	90	85	bcq	Cir Cum	5
2	"	"	29.93	88	92	86	"	"	"
3	"	3-5	29.86	89	"	"	"	"	"
4	"	"	29.85	90	93	87	"	"	"
5	WSW	"	"	91	"	"	"	"	6
6	"	"	29.84	"	92	"	"	"	9
7	"	1-3	"	"	91	86	"	"	"
8	Calm	0	29.86	"	"	"	bc	"	"
9	SW	1-2	29.87	89	89	"	"	"	"
10	"	2	29.88	88	86	85	"	Cir Cum Nimb	7
11	"	3	"	86	85	"	"	"	"
Mid.	"	3-5	"	"	"	"	bcq	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Sunday July 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially overcast and pleasant. Light breeze from S. and W. Flood tide. Obscured moonlight. Barometer steady. Squally.

(Signed) Samuel C. Lemly

From 4 to 8 A.M. Partly cloudy. Pleasant. Light W.S.W. breeze. Cir. Cum. clouds. At 7.20 made interrogatory signal 6144. "Franklin" answered 904. At 8 crossed top gallant yards.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm. Pleasant. Light breeze from W.S.W. Squally. Cir. Cum. clouds. Lieut. Asa Walker returned from leave. At 9.40 had preliminary inspection. At 9.45 Commanding Officer inspected ship and crew. Afterwards "Articles of War" were read, prayers by Commanding Officer, and crew mustered. The following men were found absent Viz. C.C. Wiggin (Sea) C.M. Thompson (Lds C.F.) Pat Mourley (O.S.2.C.) John C. Gable (O.S.2.C.) Francis Shields (O.S.2.C.) Wm Barker (Lds) S.S. Spratt (Lds) J. Horrigan (Lds) W.D. Saddler (2.C.F.) M.W. Moore (1.C.B.) and Maurice Ronan (C.F.) Flood tide. Barometer falling slowly.

(Signed) Richard G. Davenport
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light W.S.W. breeze with heavy gusts. Cir. Cum. clouds. At 1 turned ebb. Barometer falling rapidly.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Warm. Light breeze from S. and W. first part, calm last hour. At 7.10 made general signal 2985. "Franklin" answered 904. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light S.W[ester]ly breeze. Cir. Cum clouds. Heat lightening to N. and E. Moon rose at 10.45. Wm Barker (Lds) returned onboard.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			WSW	1-2		29.98	84	85	82		bcl	Cir Cum	1		
2			"	2		"	"	"	"		"	"	6		
3			"	0-1		"	"	"	"		Bc	"	4		
4			"	"		29.90	83	84	"		"	"	5		
5			SW	"		29.93	82	83	"		"	"	3		
6			"	"		29.95	"	"	"		"	"	"		
7			"	"		29.97	"	"	"		"	"	5		
8			WSW	"		30.01	83	85	"		"	"	6		
9			WNW	1-2		29.98	85	"	84		"	"	7		
10			N	"		29.97	86	88	86		"	"	8		
11			"	2		29.96	87	89	"		"	"	"		
Noon			"	"		"	88	90	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon	°	' "
Longitude by Chronometer from Forenoon Observations	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	°	" "
Variation of the Compass by Azimuth	°	" "
Water expended during the preceding 24 hours		350 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2250 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	71	90 "

P.M															
1			N	1		29.96	88	91	87		bc	Cir Cum	9		
2			"	"		"	"	92	88		"	"	"		
3			SE	"		29.94	90	94	90		"	"	"		
4			"	2		"	"	92	88		"	"	"		
5			"	"		29.92	92	91	87		"	"	"		
6			"	"		29.90	91	"	86		"	"	8		
7			"	"		29.89	90	89	"		"	"	7		
8			"	0-1		"	89	"	"		"	"	"		
9			Calm	0		29.92	98	88	84		bcl	Cum Nimb	4		
10			"	"		29.95	86	"	"		bclt	"	2		
11			SSW	2		"	"	86	82		bcplt	"	"		
Mid.			NNE	"		29.96	"	"	"		ort	"	0		

Longitude by Chronometer from Afternoon Observations	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Monday July 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light airs from W.S.W. Cir. Cum. clouds. Ebb tide. Barometer rising slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Pleasant. Cloudy. Light S.W[ester]ly airs. Ebb tide. By order of Commanding Officer, Wm Barker was confined in double irons, for five days, for absenting himself from the ship without permission. Barometer rising.

(Signed) Richard G. Davenport
Lieut.

From 8 to Merid. Clear. Warm. Light N[orther]ly breeze. Cir. Cum. At 9.15 exercised at General Quarters. Time in casting loose. Navigators and Surgeon's Div's 9h. 16m. 30s. 2nd Div, 9h. 18m. 00s. 1st Div, 9h. 20m. 00s. Powder Div, 9h. 20m. 30s. Time in securing – Secure! 9h. 36m. 00s. Navigator Div, 9h. 34m. 00s. Powder Div, 9h. 35m. 30s. 2nd Div 9h. 35m. 45s. 1st Div, 9h. 36m. 00s. Surgeon's Div, 9h. 35m. 30s. By order of Commanding Officer, John Horrigan (Lds) and C.M. Thompson (Lds C.F.) are declared deserters, they having been absent from the ship ten days without leave. By order of Commanding Officer, Henry Merault (W.R.C.) was placed in double irons, for five days, for being drunk and neglecting duty. Flood tide. Frank Maguire (2r M) left the ship on seven days leave of absence.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm, with light variable airs. At 1 made interrogatory signal 2984. "Franklin" answered 904. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Warm. Light S.E. breeze. Cir. Cum. clouds. Henry Simpson (2.C.F.) left the ship on seven days leave of absence. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Cloudy and sultry first part. Calm. Heavy showers of rain last hours. Light breeze from N.N.E. Flood tide. Barometer rising.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A,M														
1				S	3-9		29.97	82	80	78	orbtq	Nimb	0	
2				"	3-11		"	80	79	77	"	"	"	
3				SE	1-4		"	79	"	"	bcl	Cum Nimb	8	
4				"	1-2		"	78	78	"	bc	"	9	
5				Calm	0		29.98	"	79	"	"	"	8	
6				"	"		30.00	"	80	78	"	"	8	
7				W	0-1		30.01	"	82	80	"	"	6	
8				NNW	3		30.04	80	"	"	"	Cir Cum	4	
9				N	"		"	81	"	"	"	"	5	
10				Calm	0		"	82	84	82	"	"	4	
11				"	"		30.03	83	85	83	"	"	7	
Noon				SSW	2		30.01	84	87	84	"	"	6	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		350 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	70	" 2075 "

P,M														
1			WSW	2		29.99	84	90	86	bc	Cir Cum	4		
2			SW	"		29.95	86	92	87	"	"	6		
3			WSW	"		29.92	87	93	88	"	"	8		
4			W by S	"		29.90	91	94	"	"	"	"		
5			WSW	"		29.88	"	93	90	"	"	"		
6			"	"		29.86	"	92	89	"	"	6		
7			"	"		"	"	93	88	"	"	3		
8			SSW	"		29.90	90	91	86	"	"	2		
9			"	"		29.94	89	89	85	bcl	"	5		
10			"	2-3		"	87	87	"	"	"	"		
11			NW	2		"	86	86	"	bcpl	Nimb	6		
Mid.			"	1		"	"	"	"	"	"	3		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Tuesday July 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Heavy thunder and rain squalls S. first two hours, clear and bright moonlight latter half of watch. Cum. Nimb. clouds. Wind shifted to S.E. latter part of watch. Ebb tide.

(Signed) Richard G. Davenport
Lieut.

From 4 to 8 A.M. Cloudy and Warm. Calm during first part, light breeze from N. and W. during last two hours. At 7.30 made interrogatory signal 7071. "Franklin" answered 904. At 8 crossed royal yards. Barometer rising slowly.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and warm. Calm. Light variable airs. At 9.30 inspected at quarters. Exercised at battalion drill. By order of Commanding Officer, Lieutenant James K. Cogswell was suspended from duty for sleeping on his watch and intoxication. Flood tide. Barometer falling. John L. King (B.M.) absent without leave.

(Signed) William H. Allen
Mid[shipma]n.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from S. and W. Ebb tide. Thomas C. Pentz (O.S.2.C.) and Frank L. Handy (1.C.B.) left the ship on seven days leave of absence. By order of Commanding Officer, Maurice Ronan (C.F.C.) Charles C. Wiggins (Sea) S. S. Spratt (Lds) and John C. Gable (O.S.2.C.) are declared deserters, having been absent without leave for ten days.

(Signed) W. G. Hannum
Midn.

From 4 to 8 P.M. Clear. Warm. Light airs from W.S.W. At 6.30 made interrogatory signal 6070. "Franklin" answered 904. At sunset sent down royal yards and made preparations for dressing ship. Ebb tide.

(Signed) T.D. Griffin
Midn

From 8 to Midnight. Warm, with W[ester]ly and NW[ester]ly breeze. Lightening, with passing showers of rain third hour of watch.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A,M														
1				Calm	0		29.95	83	83	80	oplt	Cum Nimb	0	
2				"	"		"	"	"	"	orlt	"	"	
3				"	"		29.96	81	82	"	bc	Cir Cum	6	
4				"	"		"	"	81	"	"	"	7	
5				WNW	1		29.97	80	"	"	"	"	8	
6				"	2		29.98	"	80	79	"	"	9	
7				"	"		30.02	79	"	"	b	None	10	
8				W by N	"		30.03	"	81	80	"	"	"	
9				NW by N	"		30.03	82	84	81	"	"	"	
10				"	"		30.02	83	80	82	bc	Cum	7	
11				"	"		"	84	88	84	"	"	6	
Noon				N by N	"		29.98	86	89	"	"	"	5	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		400 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1500
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	70	1800

P,M														
1			NNW	2		29.97	86	86	85	bc	Cum	9		
2			"	"		29.98	87	89	"	"	"	8		
3			"	"		29.96	88	"	"	"	"	9		
4			N by E	3		"	"	"	86	"	Cir Cum	"		
5			"	"		29.97	"	"	"	"	"	"		
6			"	"		29.98	"	88	"	"	"	8		
7			"	"		29.99	87	86	83	"	"	"		
8			"	"		30.02	"	85	82	"	"	"		
9			"	"		30.04	86	84	"	"	"	9		
10			"	2		30.06	84	82	80	"	"	"		
11			"	"		"	80	80	"	"	"	"		
Mid.			"	"		"	"	"	"	"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Wednesday July 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy first part. Clear and pleasant latter part. Bright moonlight.

(Signed) William H. Allen
Midn.

From 4 to 8 A.M. Clear. Warm. Light W.N.W. breeze. Cir. Cum. clouds. At sunrise dressed ship, rainbow, in honor of the day.

(Signed) Richard Henderson
Midn.

From 8 to Merid. Clear, warm and pleasant. Light breeze from N. and W. Flood tide. At 8.55 Lieutenant Wainwright Kellogg returned from leave. At 9.15 inspected at quarters. John L. King (B.M.) was brought on board by city police. At Merid, "Franklin" fired national salute of 21 guns.

(Signed) W.G. Hannum

From Merid. to 4 P.M. Clear, warm and pleasant. Light breeze from N.N.W. first three hours, last hour from N. by E. Cir. Cum. clouds. Tide turned at 3.50. Barometer steady last two hours.

(Signed) T. D. Griffin
Midn.

From 4 to 8 P.M. Clear. Cool. Pleasant. Cir. Cum. clouds. Ebb tide. James Bryson (O.S.) left the ship for seven days leave. By order of Commanding Officer, John O' Niel (C.F.T.) was placed in double irons for striking a person.

(Signed) Richard G. Davenport
Lieut.

From 8 to Midnight. Clear and pleasant, with light breeze from N. and E. Barometer falling slowly.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			SW	0-1		30.06	79	78	76		bc	Cir Cum	8		
2			"	"		"	"	"	"		"	"	7		
3			"	"		"	"	"	"		"	"	5		
4			"	"		"	"	"	"		"	"	"		
5			SW	"		30.08	76	77	75		"	"	9		
6			"	"		30.10	"	"	"		"	"	8		
7			"	"		30.11	"	"	76		"	"	"		
8			"	"		30.14	78	79	78		"	"	7		
9			Calm	0		"	"	80	79		"	"	6		
10			"	"		30.13	79	81	80		"	"	5		
11			SW	0-1		"	80	82	"		"	"	"		
Noon			WSW	"		30.11	"	83	"		"	"	6		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1200 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	70	" 1522 "

P.M															
1			S	1		30.10	82	84	82		bc	Cir Cum	5		
2			SE	"		30.07	"	85	83		"	"	"		
3			SSE	"		30.05	83	86	"		"	"	6		
4			"	"		30.01	84	"	"		"	"	"		
5			"	"		29.95	"	83	82		"	"	7		
6			"	"		"	83	"	"		"	"	3		
7			"	"		29.	"	"	"		"	"	2		
8			"	"		"	"	82	81		"	"	"		
9			SW by S	2		"	82	81	80		"	Cum Nimb	0		
10			SW	"		"	80	80	78		"	"	3		
11			SSE	"		29.95	79	"	"		"	"	6		
Mid.			"	1		29.96	"	"	"		"	"	5		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Thursday July 5th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light S. W[ester]ly airs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light S. W[ester]ly airs. Ebb tide. At 7.50 made interrogatory signal 6071 to "Franklin", answered 904. At 8 crossed royal yards.

(Signed) William H. Allen
Midn.

From 8 to Merid. Clear. Warm. Calm. Cir. Cum. clouds. At 9.15 inspected at quarters. Exercised Company A. Company B. By order of Commanding Officer, John Mason (Mach) W. D. Jenkins (O.S.2.C.) Wm Barker (Lds) and Henry Merault (W.R.C.) were released from confinement and sent to duty. Michael Leary (Lds E. F.) A. McGarvey (B. Maker) Allen Christian (Nurse) and W. G. Norwood (O.S.) absent without leave. By order of Commanding Officer, Lieut. Jas. K. Cogswell was released from suspension. By order of Commanding Officer, W. G. Smith (OS2C) and James Gillespie (OS2G) prisoners at large, returned to duty. Broke out shot locker and cleaned out after bilge. Got up sounding apparatus. Charles V. Tucker, Pay Yeoman, was discharged at his own request, and left the ship.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from S. and E. Flood tide. Barometer falling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Warm. Light S.S.E. breeze. Cir. Cum. clouds. At 6.45 made interrogatory signal 2985. "Franklin" answered 904. At sunset sent down royal yards.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Overcast first part, afterwards clear and pleasant. Light variable breeze. Lightening to W. first part. Ebb tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SSE	2		29.92	80	81	79		bc	Cir Cum	5		
2				"	"		29.91	79	80	78		"	"	4		
3				"	"		29.90	78	79	77		"	"	3		
4				"	3		29.89	"	"	"		or	Cum Nimb	0		
5				S by W	1		29.90	"	"	"		"	"	"		
6				SW	"		29.88	77	"	"		o	"	"		
7				"	"		"	"	"	"		"	"	"		
8				WNW	"		"	"	80	"		"	"	"		
9				N	2		29.89	78	"	"		"	"	"		
10				"	"		29.90	"	"	"		"	"	"		
11				"	"		"	"	"	"		bc	"	1		
Noon				"	3		"	79	"	79		"	"	2		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 gallons.
Water during the preceding 24 hours		1500 "
Water remaining on hand fit for me at Noon		900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	70	1250 "

P.M																
1				N	2		29.87	78	81	79		bc	Cum Nimb	1		
2				N by E	3		"	80	82	80		"	"	"		
3				"	"		"	"	"	"		"	Cir Cum	"		
4				NNE	4		"	"	"	"		"	"	"		
5				"	3		29.89	"	"	"		"	"	5		
6				"	"		"	81	"	"		"	"	4		
7				"	"		"	80	"	"		"	"	6		
8				"	2		29.90	79	81	79		"	Cum	9		
9				"	"		29.93	"	80	"		"	"	"		
10				NE	"		29.94	"	"	"		b	None	10		
11				"	"		"	77	"	"		"	"	"		
Mid.				NNE	"		29.95	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	o	"
Longitude by Chronometer Observations *	o	"
Variation of the Compass by Amplitude observed at Sunset	o	"
Variation of the Compass by at	o	"

under the command of Commander Winfield Scott Schley
Friday July 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear first three hours of watch, during last hour overcast. Light S.S.E. breeze. Cir. Cum. Nimb. clouds. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy. Pleasant. Light airs from S. and W. Rainy first hour of watch. At 7.45 made interrogatory signal 5456. "Franklin" answered 904. At 8 loosed sail. Ebb tide.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Merid. Cloudy. Pleasant. Light breeze from S. and W. shifting to N. At 9.30 inspected at quarters. Expected at fire quarters. At 9.40 made interrogatory signal 4826. "Franklin" answered and made 904. At 9.45 furled sail. Workmen from Construction Department engaged in removing floor of after shot locker.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy, warm and pleasant. Light breeze from N. and E. Master C. G. Calkins reported for duty. At 1.30 a Summary Court Martial, composed of the following officers. Lieut. Jas. K. Cogswell, Lieut. Wainwright Kellogg, Ensign Samuel C. Lemly and Asst. Engineer Geo. B Ransom convened for the trial of W. J. Lindon (O.S.2.C.) Ed Moran (1.C.B.) J. V. Marion (1.C.B.) and John O' Neil (C. of Top) At 3.15 made interrogatory signal 2984. "Franklin" answered 904. Received 1500 galls, fresh water. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Moderate breeze from N.N.E. Flood tide. By order of Commanding Officer, James Sutton (2.C.F.) stood half and hour on quarter deck. At 4.20 Court Martial adjourned.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from N. and E. Ebb tide.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in faths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				NE	1		29.95	78	77	75		bc	Cum	9		
2				"	"		"	76	76	74		"	"	"		
3				"	"		29.96	74	"	75		"	"	"		
4				"	"		"	"	"	"		"	Cir Cum	"		
5				NNE	"		29.99	"	"	"		"	"	"		
6				"	"		30.02	75	"	"		"	"	"		
7				N	"		30.06	76	77	76		"	"	"		
8				"	2		30.09	"	"	"		"	"	"		
9				NNE	"		30.10	"	"	"		"	"	"		
10				"	3		"	"	"	77		"	"		8	
11				"	"		30.11	77	79	"		"	"		5	
Noon				NE	"		"	"	"	"		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ☉	°	'	"
Longitude by Chronometer from Forenoon Observations ☉	°	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ☉ observed at	°	"	"
Water expended during the preceding 24 hours			300 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			2100 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	70	"	975 "

P,M									
1	ENE	3	30.10	78	79	77	bc	Cum	5
2	"	"	"	"	80	"	"	"	"
3	"	"	"	"	"	"	"	"	8
4	"	"	30.11	"	"	"	"	"	"
5	"	"	"	"	"	"	"	"	9
6	"	"	"	"	"	78	"	"	"
7	"	2	"	77	79	"	"	"	"
8	E by N	"	30.12	"	"	"	"	"	"
9	"	1	30.15	"	77	76	"	"	"
10	"	"	30.16	"	"	"	"	"	"
11	"	"	30.17	"	"	"	"	"	"
Mid.	"	"	30.16	"	"	75	b	None	10

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Saturday July 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool, with light N.E[aster]ly airs. By order of Commanding Officer. Allen Christian (Nurse) stood four hours extra watch on quarter deck.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. and E. At 6.30 Francis E. Cross (Eng. Yeo.) returned from leave of absence.

(Signed) Richard Graham Davenport
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from N. and E. At 8.30 "Ossipee" moored to Navy Yard Wharf. W. G. Norwood (O.S.) returned from liberty, having been absent four days without permission. Carpenters gang from Navy Yard engaged in cleaning the bilge. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and E. Flood tide. Yard men engaged in cleaning bilge. At 3 Lieut. R. G. Davenport left the ship, having been detached by order of Navy Department. By order of Commanding Officer, Patrick Mourley (O.S.2.C.) and Francis Shields (O.S.2.C.) are declared deserters, having been absent from the ship ten days without leave.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light airs from N. and E. Pass. Asst. Paymaster S. Denison Hurlburt left the ship on leave of absence for one week. Engaged in cleaning bilge. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from N. and E. Ebb tide. Barometer steady.

(Signed) Wainwright Kellogg
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		30.16	74	74	73		b	None	10		
2			"	"		"	73	"	"		"	"	"		
3			"	"		"	72	73	72		"	"	"		
4			"	"		"	"	71	70		bcm	Cir Cum	9		
5			"	"		30.18	70	70	"		"	"	7		
6			"	"		30.19	"	71	72		"	"	8		
7			"	"		30.21	71	72	74		bc	"	9		
8			SE	0-1		30.20	72	74	"		"	"	"		
9			ESE	"		"	73	75	"		"	"	"		
10			E	"		"	75	77	77		"	"	"		
11			"	"		30.19	77	78	"		"	"	"		
Noon			"	"		30.18	78	81	78		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		1800 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	70	" 700 "

P.M															
1			Calm	0		30.17	80	82	79		bc	Cir Cum	9		
2			NNE	1-2		30.15	81	"	80		"	"	"		
3			ENE	2		30.13	82	83	81		"	"	"		
4			SE	"		30.07	"	"	"		"	"	"		
5			SSE	"		"	"	"	80		"	"	"		
6			SE by S	"		"	"	"	"		b	None	10		
7			"	"		"	"	82	79		"	"	"		
8			"	"		"	80	81	"		"	"	"		
9			SSE	"		30.06	79	80	78		"	"	"		
10			"	"		"	78	78	75		"	"	"		
11			S	"		30.07	76	77	74		"	"	"		
Mid.			"	"		"	"	75	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Sunday July 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Calm. Misty last hour. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Cool. Pleasant. Misty. Calm. Cir. Cum. clouds. Ebb tide.

(Signed) C. G. Calkins
Master.

From 8 to Merid. Clear and pleasant. Light airs from S. and E. Ebb tide. At 10, Commanding Officer inspected ship and crew at quarters, afterwards read prayers. Lieutenant Commander John Schouler returned from leave. H.M. Flint (P.M.) and Ed Case (Corp) absent without leave.

(Signed) Wainwright Kellogg
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light airs from N.N.E. shifting to S.E. at end of watch. Cir. Cum. clouds. Flood tide.

(Signed) C. G. Calkins
Master

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. Tide turned ebb at 8. At 7 made interrogatory signal 2985. "Franklin answered 904. By order of Commanding Officer, James Suston (L.C.F.) stood one hour and a half extra watch on quarter deck.

(Signed) Wainwright Kellogg
Lieut.

From 8 to Midnight. Clear. Pleasant. Light S.S.E. breeze. Bright starlight. Ebb tide.

(Signed) C. G. Calkins
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Hour	knots	Courses steered.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in fifths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.					
A,M														
1			S	1		30.08	74	74	74	b	None	10		
2			"	"		30.07	"	73	72	"	"	"		
3			"	"		30.06	73	"	"	"	"	"		
4			"	"		"	"	"	"	"	"	"		
5			SSE	"		30.08	72	"	"	bc	Cir Cum	7		
6			SSW	"		"	"	"	"	"	"	8		
7			"	"		30.06	"	"	73	"	"	9		
8			"	"		30.04	74	78	75	"	"	"		
9			WSW	"		30.00	78	81	77	"	"	"		
10			"	"		29.99	79	"	79	"	"	"		
11			"	2		29.95	80	85	84	"	"	"		
Noon			"	"		29.93	82	88	"	"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ☉ observed at	0	11	11
Water expended during the preceding 24 hours			300 gallons.
Water			1500
Water remaining on hand fit for me at Noon			1500
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	70	11	325

P,M									
1	SW	1	29.90	84	88	84	bc	Cir Cum	9
2	"	"	29.86	86	90	86	"	"	"
3	"	"	29.85	88	91	87	"	"	"
4	"	"	29.82	"	"	"	"	"	"
5	"	"	29.80	89	"	"	"	"	"
6	"	"	29.78	90	90	86	"	"	"
7	"	"	29.79	89	"	"	"	"	"
8	"	"	"	"	89	"	"	"	"
9	"	"	29.99	86	87	84	"	Cum	"
10	"	"	"	"	85	83	"	"	"
11	"	"	29.81	85	84	82	"	"	"
Mid.	"	3	29.84	"	82	80	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	0	1	11
Longitude by Chronometer Observations	*	0	1	11
Variation of the Compass by Amplitude	observed at Sunset	0	1	11
Variation of the Compass by	at	0	1	11

under the command of Commander Winfield Scott Schley
Monday July 9th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. Flood tide.

(Signed) Wainwright Kellogg
Lieut.

From 4 to 8 A.M. Clear and cool. Light airs from S.S.W. Flood tide. At 7 made interrogatory signal 5455. "Franklin" answered 904. At 8 loosed sail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light S.S.W. breeze. Cir. Cum. clouds. Turned ebb at 8. At 9.15 inspected at quarters. Exercised 1st and 2nd Divisions at great gun, Powder Division at stations, Marine Guard at small arms. Men from Navy Yard at work in after bilge and in engine room.

(Signed) C. G. Calkins
Master.

From Merid. to 4 P.M. Clear and warm. Light S.W[ester]ly breeze. Ebb tide. At 12.55 made interrogatory signal 4826. "Franklin" answered 904. At 1 "Franklin" made preparatory signal 2984, and then 2984. Answered. At 1.15 furlled sail. Hauled ship astern and secured temporarily. Barometer falling. M. Waverley Moore (1.C.B.) is declared a deserter, having been absent from the ship ten days without leave.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Warm. Light S.W. breeze. Cir. Cum. clouds. Dropped ship astern and secured her. Lieutenant Wainwright Kellogg left the ship, having been detached by order of Navy Department. Carpenter W.W. Richardson left the ship on seven days leave. High water at 8.

(Signed) C. G. Calkins
Master.

From 8 to Midnight. Clear and pleasant. Light S.W[ester]ly breeze. Ebb tide. Barometer rising. Lightening to N. first part of watch.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.			TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in fifts.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface							
A.M.																		
1				SSW	3		29.81	82	81	79			b	None	10			
2				"	"		"	81	"	"			bc	Cir Cum	9			
3				"	1		"	80	"	"			"	"	"			
4				"	"		29.80	79	80	78			"	"	"			
5				"	"		29.82	"	79	"			"	"	"			
6				"	"		29.84	80	"	"			"	"	"			
7				"	"		"	82	80	"			"	"	"			
8				"	2		29.85	"	82	80			"	"	8			
9				SW	"		"	"	83	"			"	"	"		"	
10				"	"		"	"	85	82			"	"	"		9	
11				"	"		29.83	84	88	85			"	"	"		"	
Noon				"	"		29.82	86	90	87			"	"	"		"	

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon ☉	0	1	"
Longitude by Chronometer from Forenoon Observations ☉	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			400 gallons.
Water Received during the preceding 24 hours			2200 "
Water remaining on hand fit for me at Noon			2800 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	70	"	50 "

P,M									
1	S	1	29.78	89	92	88	bc	Cir Cum	7
2	"	"	"	88	"	"	"	"	5
3	"	"	29.75	89	"	"	"	"	3
4	N by W	"	"	90	89	86	bctr	Cum Nimb	1
5	NE by E	"	29.76	86	87	85	bcp	"	"
6	SSW	"	29.77	"	"	"	opl	"	0
7	E	"	29.78	84	85	84	o	"	"
8	"	"	29.81	"	"	83	bc	"	1
9	Calm	0	29.83	82	82	80	ocp	Nimb	0
10	"	"	"	"	"	"	"	"	"
11	"	"	"	"	"	"	"	"	"
Mid.	SW	1	29.84	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	44
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Tuesday July 10th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Bright starlight. Turned flood at 1.30.

(Signed) C. G. Calkins
Master.

From 4 to 8 A.M. Clear and pleasant. Light airs from S.S.W. Flood tide. Barometer rising slowly. Construction Department engaged in cleaning and filling in after bilge. Two men at work.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Light S.W[ester]ly breeze. Ebb tide. Master M. E. Hall reported for duty. Engaged in breaking out hold. Turned the following articles into stores Viz. One manilla steam cable, two stay luffs, eight rigging luffs, one main yard tackle, one stay tackle, one stern ladder and four wire leaders for boat falls. Two men from Construction Department engaged in filling in bilge under shot locker. One plumber at work in magazine.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and warm. Light airs from S. first part, last hour from N. and W. Received Daniel O'Hara (P.M.) from Marine barracks for duty aboard this ship. At 12.10 "Hartford" came in and moored on starboard bow, to stream buoys. At 3.40 a strong thunder squall, accompanied by rain, came up from the W. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast. Passing showers first two hours. Midm. W. G. Hannum left the ship on seven days leave of absence. At 6.30 made interrogatory signal 2985. "Franklin" answered and made 904.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Light passing showers. Calm, with occasional light airs from S.W.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A,M														
1				Calm	0		29.88	80	80	79	bcl	Cum Nimb	2	
2				"	"		"	"	"	"	"	"	4	
3				"	"		"	"	"	"	"	"	5	
4				"	"		"	"	"	"	"	"	"	
5				"	"		"	79	"	80	bc	"	1	
6				"	"		"	"	"	"	"	"	"	
7				SW	1		29.91	"	"	81	"	Nimb	0	
8				"	"		29.96	78	78	78	or	"	"	
9				"	"		29.97	77	"	"	"	"	"	
10				Calm	0		29.95	"	"	77	"	"	"	
11				SE	1		"	"	"	"	"	"	"	
Noon				S	"		29.94	"	"	76	"	"	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		2500 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	" 2015 "

P,M														
1			S	1		29.94	77	78	77	or	Cum Nimb	0		
2			"	"		"	"	"	"	bcr	"	1		
3			"	"		"	78	80	78	bc	"	"		
4			"	"		29.92	"	"	"	"	"	2		
5			SSE	"		29.90	79	81	"	"	"	1		
6			Calm	0		29.92	"	82	79	"	"	0		
7			"	"		29.95	"	80	"	"	"	"		
8			NNW	3		29.97	"	79	"	oqlr	"	"		
9			N	2-4		29.96	"	78	78	bcp	"	6		
10			N by E	3		"	77	78	77	"	"	4		
11			"	2-4		"	76	76	76	"	"	5		
Mid.			"	"		"	75	75	75	"	"	3		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley , U. S. Navy.
Wednesday July 11th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy but pleasant. Calm. Lightening to N.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast first, rainy latter part of watch. Cum. Nimb. clouds. Light S.S.W. breeze.
Flood tide.

(Signed) M. E. Hall
Master.

From 8 to Merid. Overcast, rainy and pleasant. Calm first part, light airs from S. and E. latter part of watch. Medical Inspector W.M. King examined John O' Neil (C. of T.) and found him capable of undergoing the punishment assigned by Summary Court Martial. Turned ebb at 10.

(Signed) James K. Cogswell
Lieut. U.S.N.

From Merid. to 4 P.M. Overcast and rainy first part, partly clear latter part of watch. Ebb tide.

(Signed) M. E. Hall
Master.

From 4 to 8 P.M. Overcast and pleasant. Calm first part, fresh breeze from N.N.W. last hour of watch. Turned flood at 4.30. Heavy squall from N.N.W. last part of watch. At 7.20 called all hands to muster and the proceedings, findings and sentence of Summary Court Martial in the case of W. J. Lindon (O.S.2.C.) James V. Marion (1.C.B.) Ed Moran (1.C.B.) and John O' Neil (C. of T.) were read. W. J. Lindon, James V. Marion and E. Moran, for taking a boat from a schooner along side, absenting themselves without leave until apprehended and brought aboard by the police, were sentenced to one year deprivation of liberty on show on foreign stations and three months extra police duty. For the case of W. J. Lindon and Ed Moran, the punishment was remitted to six months deprivation of liberty on foreign stations and 30 days extra duty. John O' Neil (C. of F.) for assaulting and striking a shipmate and being disrespectful to his superior officer at the mast, was sentenced to 30 days confinement, on bread and water, with a full ration every fifth day and recommended to the clemency of the revising authority in consideration of previous good conduct. Sentence remitted to confinement for 15 days, with bread and water every fifth day. J. V. Marion (1.C.B.) Ed Moran (1.C.B.) and W. J. Lindon (O.S.2.C.) were released from confinement, by order of Commanding Officer, and John O' Neil (C. of T.) placed in confinement to undergo sentence as above.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Pleasant weather, with light passing showers of rain. Gentle to moderate breeze from N. and E. Turned ebb at 10.20.

(Signed) M.E. Hall
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				W	0-1		30.02	72	72	71		bc	Str Nimb	7		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				NW	2		30.04	"	73	73		"	Cum Nimb	8		
6				NNW	"		30.07	"	76	"		"	"	7		
7				N by E	"		30.08	74	"	74		"	"	4		
8				NE	"		"	75	"	75		"	"	3		
9				NNE	3		"	76	77	76		"	"	4		
10				"	"		"	77	78	"		"	"	"		
11				"	"		30.07	78	79	"		"	"	"		
Noon				"	"		"	"	"	77		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	" 1740 "

P.M																
1				ENE	3		30.08	79	80	77		bc	Cum Nimb	6		
2				"	"		"	"	"	"		"	"	7		
3				"	"		30.07	"	81	"		"	Cum	8		
4				"	"		"	"	80	"		"	"	9		
5				"	"		"	"	"	"		"	"	"		
6				"	"		30.06	"	"	"		"	"	8		
7				"	"		"	78	79	"		"	"	"		
8				"	"		"	"	"	"		"	"	7		
9				"	2		30.07	77	78	76		"	"	8		
10				"	"		"	76	77	"		"	"	9		
11				"	"		30.08	75	76	75		"	"	"		
Mid.				"	"		"	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Thursday July 12th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light airs from the W. Flood tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. and W. shifting to N. and E. Flood tide. At 7.50 made interrogatory signal 5456. "Franklin" answered and made 904. At 8 loosed sail.

(Signed) C. G. Calkins
Master.

From 8 to Merid. Cloudy. Pleasant. Light N.N.E. breeze. Cum. Nimb. clouds. At 11.05 high water. At 9.15 inspected at quarters. Exercised Comp. A at single sticks, Comp. B. at howitzer crew at small arms, Marine Guard at small arms. Navy Yard men at work in magazine, engine room and after bilge.

(Signed) M. E. Hall
Master.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E.N.E. Ebb tide. At 1 made interrogatory 4826. "Franklin" answered and made 904. Navy Yard men working in engine room and after bilge. Fueled sail. "Hartford" hauled alongside dock.

(Signed) C. G. Calkings
Master.

From 4 to 8 P.M. Clear. Warm. Light E.N.E. breeze. Cumulus clouds. At 7.15 made interrogatory signal 2984. "Franklin" answered and made 904. Navy Yard Hands at work in engine room Low water at 4.20. Master C. G. Calkins left the ship on four days leave of absence.

(Signed) M.E. Hall
Master.

From 8 to Midnight. Clear and pleasant with light breeze from N. and E. Turned ebb at 10.50.

(Signed) M. E. Hall
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			W	1		30.08	75	75	74		bc	Cir Cum	7		
2			"	"		"	"	"	"		"	"	"		
3			Calm	0		"	"	"	"		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			NWN	1		"	73	73	72		"	"	9		
6			"	"		"	"	74	73		"	"	"		
7			"	"		30.09	74	"	74		"	Cum	"		
8			"	"		"	75	75	75		"	"	"		
9			"	"		"	79	79	77		"	"	"		
10			"	"		"	79	80	78		"	"	"		
11			"	"		"	78	81	"		"	"	"		
Noon			N	2		30.07	79	82	"		"	"	8		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	" 1465 "

P.M															
1			NNE	2		30.03	80	82	78		bc	Cum	9		
2			"	"		30.02	"	"	"		"	"	"		
3			"	1		30.00	81	83	"		"	"	"		
4			"	"		29.98	"	84	80		"	"	"		
5			"	"		29.99	83	"	"		"	"	"		
6			NE	"		"	"	85	82		"	"	"		
7			Calm	0		"	82	84	"		"	"	"		
8			"	"		30.00	"	83	"		"	"	"		
9			"	"		30.02	78	79	80		"	"	"		
10			"	"		"	"	78	78		"	"	"		
11			"	"		30.03	"	"	76		"	"	"		
Mid.			"	"		"	"	77	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Friday July 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light W[ester]ly airs and calms. Running ebb tide. By order of Commanding Officer, Ellison Parker (Lds) stood four hours extra duty.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light N[orther]ly and W[ester]ly airs. Turned flood at 5. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from N.N.W. Flood tide. At 9.15 inspected at quarters. Exercised at fire quarters. Men from Yard working in engine room and after shot locker. D. O'Hara (P.M.) was brought aboard by police.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light N.N.E. airs. Turned ebb at 1.30. James Brady (Mach) left the ship on seven days leave of absence. John Bale (Sea) and John Lynch (Sea) were received aboard for duty from "Franklin". Five men from yard at work in engine room.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light airs from N. and E. At 4.30 made interrogatory signal 2984. "Franklin" answered and made 904. Lieutenant Commander John Schouler left the ship on four days leave of absence. Received John W. Grun (Lds) on board from "Franklin", he having enlisted for three general service.

(Signed) Signed Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Calm. Moon set at 9.30. Turned ebb at 11.30.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		30.04	75	75	72		bc	Cir Cum	8		
2			"	"		"	"	"	"		"	"	7		
3			"	"		30.03	"	"	"		"	"	4		
4			"	"		30.02	"	"	"		"	"	"		
5			NW	1		30.04	73	"	73		"	"	5		
6			"	"		30.05	74	"	"		"	"	7		
7			"	"		30.06	75	76	74		"	"	8		
8			"	"		30.05	"	"	"		"	"	9		
9			"	"		30.08	76	"	"		"	"	"		
10			"	"		30.10	77	77	"		"	"	"		
11			"	"		30.18	"	79	76		"	"	"		
Noon			"	"		30.09	"	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		1600 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	" 1169 "

P.M															
1			"	"		30.06	78	79	76		bc	Cir Cum	9		
2			"	"		"	79	"	"		"	"	"		
3			"	"		30.07	"	80	77		"	"	"		
4			"	"		"	"	"	78		"	"	"		
5			SE	1		30.06	80	82	79		"	"	"		
6			"	"		"	"	80	78		"	"	"		
7			"	"		"	"	78	76		"	"	"		
8			"	"		"	79	77	75		"	"	"		
9			"	"		30.07	78	"	"		b	None	10		
10			"	"		30.08	77	"	"		"	"	"		
11			"	"		30.09	76	76	74		"	"	"		
Mid.			"	"		30.10	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "
at		

under the command of Commander Winfield Scott Schley
Saturday July 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Warm. Pleasant. Light N.W[ester]ly airs. Cir. Cum. clouds. Slack water at 5.30.

(Signed) M. E. Hall
Master.

From 8 to Merid. Clear and pleasant. Light N.N.E[aster]ly airs. Flood tide. W. H. Johnson (W.O.S.) is declared a deserter. At 8.15 "Ajax" hauled off from wharf and moored to stream buoys. "Saugus" moored to wharf. Six men from the Yard at work in the engine room.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear. Warm. Light N.N.E[aster]ly breeze. Cir.Cum. clouds. E. F. Ferry (O.S.2.C.) left the ship on seven days leave of absence. Slack water at 12.30. Sold deserters clothing amounting to \$35.28. Navy Yard hands at work in engine room. Irvin Winbush, was shipped as (Lds) for the cruise of the "Essex", for special service.

(Signed) M. E. Hall
Master

From 4 to 8 P.M. Clear and pleasant. Light S.E[aster]ly. Turned ebb at 6.30. Cir. Cum. clouds. Barometer steady. Navy Yard men at work in engine room.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant with light airs from S.E. Ebb tide.

(Signed) M. E. Hall
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prog. of Clear Sky, in faths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height inches.	Ther. at/d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				E	1		30.10	72	73	72		bc	Str	8		
2				"	"		"	"	"	"		"	"	7		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				SSE	"		30.12	"	"	"		"	Cir Cum	5		
6				"	"		"	73	"	"		"	"	2		
7				"	"		30.14	"	74	73		"	"	4		
8				"	"		30.13	"	76	74		"	"	5		
9				"	"		30.12	77	79	75		"	"	"		
10				"	"		30.11	"	81	77		"	"	"		
11				"	"		30.10	79	83	78		"	"	"		
Noon				"	"		30.09	"	"	80		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	o	'	"
Longitude by D. R. at Noon	o	'	"
Latitude by Observations at Noon ⊙	o	'	"
Longitude by Chronometer from Forenoon Observations ⊙	o	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"	"
Variation of the Compass by Azimuth ⊙ observed at	o	"	"
Water expended during the preceding 24 hours			300 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1300 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	69	"	915 "

P,M									
1	S	2	30.14	80	84	82	bc	Cir Cum	6
2	"	"	"	83	86	83	"	"	5
3	S by E	3	"	84	87	"	"	Cum Nimb	6
4	S	"	"	"	"	"	"	"	4
5	"	"	30.12	"	86	"	"	"	5
6	"	1	30.10	"	85	82	"	"	"
7	"	2	30.08	83	84	81	"	"	6
8	"	3	30.04	"	"	"	"	"	5
9	SW	"	"	80	80	79	"	"	"
10	"	2	"	79	79	"	"	"	6
11	"	"	"	"	"	78	"	"	"
Mid.	"	1	"	78	78	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	0	1	11
Longitude by Chronometer Observations	*	0	1	11
Variation of the Compass by Amplitude	observed at Sunset	0	1	11
Variation of the Compass by	at	0	1	11

under the command of Commander Winfield Scott Schley
Sunday July 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cool and pleasant. Light airs from E.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from S.S.E. Flood tide. D. O' Hara (P.M.)
absent from the ship without leave.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light S[outher]ly airs. Cir. Cum. clouds. At 9.30 mustered at
quarters. At 9.45 Commanding Officer ship and crew at quarters, immediately afterwards read
prayers. W. E. Hagganbotham (O.S.) returned from leave P.A. Paymaster S. D. Hurlburt
returned from leave. Flood tide.

(Signed) M. E. Hall
Master.

From Merid. to 4 P.M. Clear and pleasant. Warm. Light breeze from S. Tide turned ebb at 1.

(Signed) Samuel C. Lemly

From 4 to 8 P.M. Cloudy. Pleasant. Light S[outher]ly breeze. Cum. Nimb. clouds. Slack water at
8.

(Signed) M. E. Hall
Master.

From 8 to Midnight. Cloudy but pleasant. Light airs from S.S.W. Running flood tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			SE	1		30.05	77	77	76		b	None	10		
2			"	"		"	"	"	"		"	"	"		
3			"	"		30.06	76	"	"		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			S	"		"	"	"	"		bc	Cir	9		
6			"	"		"	"	78	"		"	Cir Cum	"		
7			"	"		30.05	77	79	77		"	"	"		
8			"	"		"	78	80	78		"	"	"		
9			"	"		30.04	"	81	80		"	"	"		
10			"	"		"	80	84	82		"	"	"		
11			"	2		30.03	82	86	83		"	"	"		
Noon			"	"		30.02	83	87	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		1000 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	640 "

P.M															
1			S	2		29.96	84	89	84		bc	Cir Cum	9		
2			SSE	3		29.92	86	90	86		"	"	"		
3			S	2		29.90	87	"	"		"	Cum	8		
4			"	"		"	88	91	"		"	Cir Cum	"		
5			"	"		"	89	"	87		"	"	9		
6			"	1		29.88	90	"	"		"	"	"		
7			"	"		"	"	90	"		"	Cum Str	8		
8			"	"		29.89	89	89	85		"	"	"		
9			"	3		29.90	86	88	84		"	"	"		
10			"	"		29.91	85	87	"		"	"	7		
11			SW	"		"	"	86	82		"	"	"		
Mid.			"	"		"	84	85	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Monday July 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant with light airs from S.E. Slack water at 2.

(Signed) M. E. Hall
Master.

From 4 to 8 A.M. Clear and pleasant. Light S[outher]ly airs. Ebb tide. At 6 "Plymouth" anchored off coal wharf. At 7.50 "Saugus" got underway and was towed to dry dock.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from S. Flood tide. At 9.15 exercised at general quarters. Time casting loose. Marine 1 m. Engineer Div, 1 m. 30 sec. 2nd Div, 2 m. Powder Div, 2 m. 10 sec. Navigators Div, 3 m. 1st Div, 4 m. Secured. Navigators Div, 30 sec. Powder Div. 1 m. 1st Div, 1 m. 45 sec. Engineers Div, 2 m. 30 sec. 2nd Div, 3 m. 30 sec. Thomas Russell (M. at A.) W.H. Simms (W.R.S.) Issac Fassett (Lds) and Henry Simpson (1.C.B.) were discharged from the ship and from the Naval service at their own request.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Warm. Light S[outher]ly airs. At 12.30 "Leleigh" came down from dry dock and moored on starboard side of this vessel. At 1.30 "Plymouth" hauled in alongside of coal wharf. Fred. Porter (Sea) was rated Capt. Of Hold, to date from July 6th. Joe Barry (C. of H.) was rated Paymaster Yeoman, to date from July 6th, by order of Commanding Officer. Turned ebb at 12.30.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and warm. Light airs from S. Ebb tide. At 6.45 mustered at quarters and served out clean hammocks. By order of Commanding Officer D. J. Downey (B.M.) was placed in double irons for safe keeping, he being intoxicated on duty.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and warm. Light breeze from S. Moon rose at 9.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		29.89	82	81	80		bc	Cir Cum	8		
2			"	"		"	"	"	"		"	"	"		
3			"	"		"	"	"	"		"	"	7		
4			"	"		"	"	"	"		"	"	"		
5			WSW	2		29.92	81	82	"		"	"	0		
6			"	"		29.94	"	"	81		"	"	"		
7			"	"		29.96	"	"	"		"	"	"		
8			"	"		"	"	"	"		"	"	"		
9			S	"		"	"	84	"		"	"	"		
10			"	"		29.97	82	87	82		"	"	6		
11			S by W	"		29.98	84	88	84		"	"	"		
Noon			WSW	"		"	88	89	"		"	"	4		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water Received during the preceding 24 hours		1500 "
Water remaining on hand fit for me at Noon		2200 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	69	365 "

P.M															
1			S	3		29.98	85	83	81		or	Nimb	0		
2			"	"		"	"	"	"		"	"	"		
3			"	"		29.99	"	"	"		"	"	"		
4			"	"		"	82	"	80		"	"	"		
5			WSW	2		"	"	82	"		bcr	"	"		
6			"	"		30.00	"	"	"		or	"	"		
7			"	"		30.01	80	"	"		bcr	"	"		
8			SW	"		30.04	"	"	"		bc	"	1		
9			"	"		"	76	78	78		"	"	2		
10			"	"		"	"	"	"		"	"	4		
11			"	"		"	"	"	"		"	"	"		
Mid.			"	"		"	"	"	"		"	"	2		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley , U. S. Navy.
Tuesday July 17th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Calm.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear. Warm. Light airs from S. and W. Ebb tide. W. H. Simms (W.R.S.) was discharged at his own request and left the ship. Cir. Cum. clouds. Geo. C. Cooper (Apothe) was discharged from this ship on recommendation of surgeon, and left accordingly, by order of Comdg. Officer.

(Signed) M. E. Hall
Master.

From 8 to Merid. Clear. Warm. Pleasant. Light airs from S. and W. Flood tide. At 9.15 inspected at quarters. Sent liberty party ashore. Master C. G. Calkins, Midn. W. G. Hannum and Carpenter W. M. Richardson returned from leave. Alexander Owens (Lds) was received and enlisted for the cruise of the "Essex", special service. By order of Comdg. Officer, Otto V. Wrisberg was appointed Master of Arms.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Overcast. Rainy. Warm. Flood tide. Henry Merault (W.R.C.) was discharged at his own request and left the ship. H.M. Flint (P.M.) is declared a deserter, having been absent from the ship ten days without leave. Slack water at 3. Navy Yard hands at work in engine room. By order of Comdg. Officer upon recommendation of Surgeon, Wm Morris was appointed apothecary.

(Signed) M. E. Hall
Master.

From 4 to 8 P.M. Overcast and rainy during first three hours, partially clear during last. Ebb tide. Lieut. J. K. Cogswell and Midn. T. D. Griffin left the ship on four days leave of absence. At 6.45 mustered at quarters.

(Signed) M. E. Hall
Master.

From 8 to Midnight. Cloudy, with light airs from S.W. Ebb tide.

(Signed) C. G. Calkins
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	"
Longitude by D. R. at Noon	0	1	"
Latitude by Observations at Noon ☉	0	1	"
Longitude by Chronometer from Forenoon Observations ☉	0	1	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			300 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1900 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	69	"	90 "

Longitude by Chronometer from Afternoon Observations	⊙	0	1	18
Longitude by Chronometer Observations	*	0	1	18
Variation of the Compass by Amplitude	observed at Sunset	0	1	18
Variation of the Compass by	at	0	1	18

under the command of Commander Winfield Scott Schley
Wednesday July 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, with light airs from S. and W. Flood tide.

(Signed) M.E. Hall
Master.

From 4 to 8 A.M. Cloudy and cool. Light passing showers first two hours. Light S[outher]ly airs.
Ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear. Warm. Light S[outher]ly breeze. Cir. Cum. Nimb. clouds. Flood tide. G.
O. Holden. (W.O.C.) and John F. Partlow absent without leave. Navy Yard hands at work in
engine room and on deck.

(Signed) C. G. Calkins
Master.

From Merid. to 4 P.M. Cloudy. Warm. Light breeze from S. Flood tide. At 1 made interrogatory
signal 2984. "Franklin" answered and made 904. Sent liberty party ashore. Received in ships
company James Stevens (Lds) be having enlisted for the cruise of the "Essex" special service.
Workmen from Navy Yard engaged in engine room and in fitting bridge.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Warm. Light S[outher]ly breeze. Cum. Nimb. clouds. Ebb tide. Charles
Zeller (OS) left the ship on two and a half days leave of absence. Navy Yard hands at work in
engine room and on bridge.

(Signed) C. G. Calkins
Master.

From 8 to Midnight. Partially cloudy but pleasant. Light breeze from S. Obscured moonlight.
Running ebb tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A.M														
1				SW	3		29.82	79	78	77	bc	Cir Cum	6	
2				"	"		"	"	"	"	"	"	"	
3				"	"		"	"	"	"	"	"	"	
4				"	"		"	"	"	"	"	"	"	
5				S	"		29.86	79	80	78	"	Cir Nimb	4	
6				"	"		29.88	"	81	79	"	"	"	
7				"	"		"	"	82	81	"	"	"	
8				"	"		"	"	"	"	"	"	3	
9				"	"		29.87	82	84	82	"	"	0	
10				"	"		29.86	"	85	"	"	"	"	
11				"	"		29.87	"	"	"	"	"	1	
Noon				"	3-4		29.87	"	"	"	"	"	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1600
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	68	2075

P.M														
1				S	2-3		29.80	84	86	83	op	Cum Nimb	0	
2				"	"		29.78	"	85	"	opq	"	"	
3				"	2		29.83	"	"	"	bcp	"	"	
4				SW	"		"	"	"	"	or	"	"	
5				"	"		"	82	82	82	"	"	"	
6				"	"		29.86	80	80	"	"	"	"	
7				SE	1		29.87	"	"	80	bcp	"	"	
8				"	"		29.88	"	"	"	ocr	Nimb	"	
9				"	"		29.89	"	79	78	"	"	"	
10				"	"		"	78	"	"	"	"	"	
11				"	"		"	"	"	"	"	"	"	
Mid.				"	"		29.98	"	"	"	"	"	"	

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	*	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	at	"

under the command of Commander Winfield Scott Schley , U. S. Navy.
Thursday July 19th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Pleasant weather. Gentle breeze from S.W. Low water at 12.30.

(Signed) C. G. Calkins
Master.

From 4 to 8 A.M. Overcast and cloudy. Light breeze from S. Ebb tide.

(Signed) M. E. Hall
Master.

From 8 to Merid. Cloudy. Warm. Moderate breeze from S. Tide turned flood at 11. At 8.45 made interrogatory signal 6465, "Franklin" answered and made 904. Loosed sail. At 9.30 inspected at quarters. At 11.15 made interrogatory signal 4826, "Franklin" answered and made 904. Furled sail. Mechanics from Navy Yard engaged in working in engine room and on bridge. Lieutenant Commanding John Schouler returned from leave.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast, cloudy and rainy. Light breeze from S. and W. Flood tide. John C. Sills (O.S.2.C.) was discharged from the Naval service at his own request.

(Signed) M. E. Hall
Master.

From 4 to 8 P.M. Overcast, rainy. Light S[outher]ly breeze. Flood tide. At 6.50 made interrogatory signal 2985. "Franklin" answered and made 904. Mechanics from Yard working in engine room and on bridge.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast and rainy, with light airs from S.E. Flood tide.

(Signed) M. E. Hall
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Hour	knots	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prog. of Clear Sky, in fths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M.															
1			S	3		29.88	78	79	77		bc	Cum Nimb	2		
2			"	"	"	"	"	"	"		"	"	3		
3			"	"	"	"	"	"	"		"	"	4		
4			"	"	"	"	"	"	"		"	"	0		
5			"	2		29.89	"	"	78		o	"	"		
6			SW	1	"	"	"	"	"		bc	"	"		
7			"	"		29.90	"	"	"		or	Nimb	"		
8			S	"		29.91	"	"	"		"	"	"		
9			SSW	"	"	"	"	80	"		"	"	"		
10			"	"	"	"	79	81	"		op	Cum Nimb	"		
11			"	"		29.88	"	"	79		oc	"	"		
Noon			S	"	"	"	"	"	"		op	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ☉	°	'	"
Longitude by Chronometer from Forenoon Observations ☉	°	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ☉ observed at	°	"	"
Water expended during the preceding 24 hours			300 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1300 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	68	"	1800 "

[illegible]

Longitude by Chronometer from Afternoon Observations	⊙	0	1	18
Longitude by Chronometer Observations	*	0	1	18
Variation of the Compass by Amplitude	observed at Sunset	0	1	18
Variation of the Compass by	at	0	1	18

under the command of Commander Winfield Scott Schley
Friday July 20th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy but pleasant. Light breeze from South.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy, cool first part. Raining last two hours. Light S[outher]ly breeze. Ebb tide.

(Signed) C. G. Calkins
Master.

From 8 to Merid. Cloudy and rainy during entire watch. Light breeze from S. and W. Tide turned flood at 11 Midshipman Richard Henderson was placed under suspension for overstaying his leave and not being on board to attend to duty.

(Signed) W. G. Hannum
Midn.

From Merid. to 4 P.M. By order of Bureau of Equipment and Recruiting P. O Donnell (Lds E.F.) was this day discharged from this vessel and from the Naval service. Cloudy weather, with light passing showers of rain. Flood tide. Light airs from S. and W. 13 workmen engaged in Engineers Department, and two in Equipment Department. "Ossipee" sent down topgallant yards and masts.

(Signed) M. E. Hall
Master.

From 4 to 8 P.M. Overcast, with frequent heavy showers. Breeze light from S.S.W. High water at 5.15.

(Signed) C. G. Calkins
Master.

From 8 to Midnight. Cloudy and rainy, with light breeze from S.W. Running ebb tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Norfolk Navy Yard, Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A.M														
1				S	1		29.94	78	77	76	op	Cum Nimb	0	
2				Calm	0		"	"	78	"	bc	"	5	
3				"	"		"	"	"	"	bcp	"	2	
4				S	1		"	77	"	"	op	"	0	
5				SSW	"		"	"	77	"	or	"	"	
6				"	"		"	"	78	"	"	"	"	
7				"	"		29.96	76	"	77	"	"	"	
8				"	"		29.99	"	79	"	oc	"	"	
9				"	"		"	77	80	78	"	"	"	
10				"	"		30.00	78	81	"	bc	"	1	
11				"	"		30.01	"	82	79	"	"	2	
Noon				"	"		"	79	"	80	"	"	4	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		1000 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	68	" 1525 "

P.M														
1			Variable	1-2		30.00	82	84	81	bc	Cir Cum	4		
2			"	"		29.99	"	"	"	"	"	"		
3			"	"		"	"	"	"	"	"	"		
4			"	"		"	"	"	"	"	"	"		
5			"	0-1		29.98	81	82	80	bcp	Cum Nimb	3		
6			"	"		"	"	"	"	"	"	"		
7			"	"		"	"	"	"	bc	"	"		
8			"	"		30.00	"	"	"	"	"	"		
9			S	"		30.03	80	"	"	bcl	"	"		
10			"	"		30.06	"	81	"	"	"	"		
11			Calm	0		30.07	"	"	"	"	"	"		
Mid.			"	"		30.10	"	"	"	"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Saturday July 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool. Frequent passing showers. Light S[outher]ly airs.
Flood tide.

(Signed) W. H. Allen
Midn.

From 4 to 8 A.M. Overcast, cloudy and rainy. Light breeze from S. and W. Tide turned ebb at 6.

(Signed) W. G. Hannum
Midn.

From 8 to Merid. Cloudy weather, with light breeze from S. and W. Slack water at 12. Ten
workmen employed in Engineers Department and two in Equipment Department. Charles Zeller
(O.S.) returned from leave.

(Signed) M. E. Hall
Master.

From Merid. to 4 P.M. Cloudy and warm. Light variable airs. Flood tide. Ten mechanics from
Navy Yard at work in engine room and two fitting bridge.

(Signed) C. G. Calkings
Master.

From 4 to 8 P.M. Cloudy and sultry, with light variable airs. Passing showers first two hours of
watch. At 6.20 made interrogatory signal 2984. "Franklin" answered and made 904.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy. Warm. Light S[outher]ly airs and calm. Flood tide. Obscured
moonlight. Midn. T. D. Griffin returned from leave.

(Signed) W. H. Allen
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1				Calm	0		30.10	80	80	79		bc	Cum Nimb	1		
2				"	"		"	"	"	"		"	"	"		
3				"	"		30.09	"	"	"		"	"	2		
4				"	"		"	"	"	"		"	"	3		
5				"	"		30.10	78	"	78		or	"	0		
6				"	"		30.11	"	"	"		bc	"	1		
7				SSE	1		30.12	79	81	80		o	"	0		
8				"	"		30.14	"	"	"		or	"	"		
9				SW	0-2		30.17	78	82	78		bcp	"	2		
10				"	"		"	"	"	"		"	"	"		
11				Variable	"		30.19	"	"	"		"	"	"		
Noon				"	"		"	"	"	"		or	"	0		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 Gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1200
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	68	1250

P,M																
1			SW	1		30.20	79	80	79		or	Cum Nimb	0			
2			S	"		30.19	"	"	"		"	"	"			
3			"	"		"	"	81	80		o	"	"			
4			"	"		"	"	"	"		bc	"	"			
5			Variable	0-1		30.18	80	"	"		"	"	1			
6			"	"		"	"	"	"		"	"	2			
7			"	"		"	"	"	"		"	"	"			
8			"	"		"	"	"	"		"	"	"			
9			S by E	"		30.20	"	"	"		"	"	"			
10			"	"		"	"	"	"		"	"	"			
11			"	"		30.22	79	80	79		"	"	"			
Mid.			"	"		30.23	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations *	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

under the command of Commander Winfield Scott Schley
Sunday July 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially overcast. Calm and sultry. Flood tide. At 12.30 sounded call to quarters. By order of Commodore Creighton, detailed a draft of twenty five men in charge of Master M. E. Hall, to take passage on U.S.S. "Plymouth", for temporary duty at Washington D.C. At 2.15 U.S.S. "Pinta" left wharf with draft of men from U.S.S. "Franklin".

(Signed) W. G. Hannum
Midn.

From 4 to 8 A.M. Overcast. Pleasant. Calm first part, light airs from S. and E. latter part of watch. At 4.30 "Plymouth" got underway and stood down the river. Turned ebb at 7.30.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Cloudy, with passing showers. Heavy rain during last hour of watch. Ebb tide. Mustered crew at quarters. The following named men absent without permission, John P. Marker (1.C.B.) John Lucey (O.S.) John Pettit (O.S.) Thos. Ludden (Lds) Lewis Zachman (Ord Sergt) Henry Simpson (2.C.F.) G. M. Hermance (O.S.2.C.) James B. Stanley (1.C.B.) J. W. Green (Lds) E. G. Ferry (O.S.2.C.)

(Signed) C. G. Calkins
Master.

From Merid. to 4 P.M. Cloudy, warm. Rainy first two hours. Light airs from S. Flood tide.

(Signed) W. H. Allen
Midn.

From 4 to 8 P.M. Cloudy, warm. Passing showers first hour. Light variable airs. Lieut. J. K. Cogswell returned from leave. At 7 made interrogatory signal 2985. "Franklin" answered and made 904. Running flood tide.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy, warm. Light breeze from S. and E. James Brady (Mach) returned from leave. Tide turned ebb at 10. Obscured Moonlight.

(Signed) W. G. Hannum
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A.M														
1				S by E	4		30.24	78	80	79	bc	Cir Cum	3	
2				SSE	1		"	"	"	"	o	Cum Nimb	0	
3				"	"		"	"	"	"	bc	"	6	
4				"	"		"	"	"	"	"	"	8	
5				SW	"		30.27	"	79	77	"	"	2	
6				"	2		"	"	80	"	"	"	"	
7				"	"		30.29	"	"	"	"	"	"	
8				"	"		"	"	"	"	"	"	"	
9				"	"		"	"	"	"	"	"	4	
10				"	"		"	80	83	81	"	"	2	
11				"	"		"	82	85	83	"	"	3	
Noon				"	"		30.27	83	86	84	"	"	2	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		900
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	68	975

P.M														
1	Variable	0-1	30.25	83	84	82	bcp	Cum Nimb	2					
2	"	"	30.23	"	"	"	"	"	"					
3	"	"	30.22	"	"	"	"	"	"					
4	"	"	"	"	"	"	"	"	"					
5	NW	2-4	30.	82	83	81	oqr	"	0					
6	Calm	0	30.	"	82	80	rcp	"	4					
7	"	"	30.	"	"	"	bcp	Nimb Str	2					
8	"	"	"	"	"	"	bc	"	"					
9	"	"	30.24	80	"	"	"	Cum Str	4					
10	"	"	"	"	"	"	"	"	5					
11	"	"	"	"	81	79	"	"	8					
Mid.	"	"	30.25	79	80	78	"	"	"					
Longitude by Chronometer from Afternoon Observations ⊙	o	"							"					
Longitude by Chronometer Observations						*	o	"	"					
Variation of the Compass by Amplitude						observed at Sunset	o	"	"					
Variation of the Compass by						at	o	"	"					

under the command of Commander Winfield Scott Schley
Monday July 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first, clear latter part of watch. Cool. Light airs from S. and E. Ebb tide. Barometer steady.

(Signed) T. D. Griffin
Midn.

From 4 to 8 A.M. Cloudy weather, with light breeze from S.W. High water at 7.30. Broke out hold and cleaned bilge forward.

(Signed) C. G. Calkins
Master.

From 8 to Merid. Cloudy, warm. Light breeze from S.W. Ebb tide. Engaged in breaking out hold. Received in Pay. Dept, 8 Bbls Pork, 6 Bbls Beef, 3 Bbls Butter, 2 Bbls Molasses, 2 Bbls Vinegar, 15 Kegs Pickles, 30 Boxes Preserved Beef.

(Signed) W. H. Allen
Midn.

From Merid. to 4 P.M. Cloudy and warm, light variable airs. Passing showers of rain first two hours. Engaged in stowing hold. U.S.S. "Canandaigua" was towed down by Navy Yard tug and moored to wharf astern of this vessel.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Calm and cloudy. Warm. Sent liberty party ashore.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Calm. Cloudy first, clear last part of watch. Turned ebb at 9. Cool and pleasant. Received a draft of twenty boys from U.S.S. "Supply".

(Signed) T. D. Griffin
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1				Calm	0		30.27	78	79	76		b	Cir Cum	8		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				"	"		30.26	"	"	"		"	Cum Nimb	3		
6				"	"		30.27	"	"	"		"	"	0		
7				"	"		30.25	"	"	"		"	"	2		
8				SW	2		"	"	80	79		"	"	5		
9				WSW	"		30.26	80	83	80		"	"	4		
10				"	"		30.24	"	"	"		"	"	2		
11				"	"		"	81	84	81		"	"	1		
Noon				"	1-2		"	83	85	83		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water Received during the preceding 24 hours		2190 "
Water remaining on hand fit for me at Noon		2920 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	68	" 700 "

P,M																
1			SW	1-2		30.21	84	86	84		bc	Cum Nimb	1			
2			"	"		30.17	"	81	"		"	"	2			
3			"	"		30.14	"	80	83		"	"	"			
4			"	"		30.12	"	85	"		bcr	"	1			
5			"	"		"	"	"	"		"	"	"			
6			WSW	"		"	83	83	81		bc	"	3			
7			Calm	0		30.10	82	"	"		"	"	1			
8			"	"		30.11	80	81	80		"	"	"			
9			"	"		30.12	"	"	79		"	Cir Nimb	3			
10			"	"		"	"	"	"		"	"	"			
11			"	"		30.14	"	"	"		"	"	"			
Mid.			"	"		"	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Tuesday July 24th, 1877.

, U. S. Navy.

[Editor's note: The following was attached to the logbook entry for July 24th.]

Stores Received in Departments of Communication and Equipment.

225 lbs Black Paint in Oil.
450 " White Lead " "
2 " Chrome Yellow.
2 galls Japan Dry.
20 " Boiled Oil.
23 " Spirits Turpentine.
10 Paint Brushes.
2 Sash Tools.
240 Ft White Pine 1 in.
150 " " " 2 in.
30 " " ash 1 in.
90 " " " 2 in.
26 " " Oak 1 in.
4 lbs Finishing Nails Asst
32 " F. O. " "
13 " Copper " "
20 " Sheathing " "
50 " Oakum.
10 " Oars.
7 Boat Hooks.
4 lbs. White Chalk.
7 yds Fearnought
100 lbs Sheet Lead
175 " White Zinc in oil.
4 Brass Padlocks
50 Sheets Sand Paper
12 Whitewash Brushes.
5 Galls. Neats foot oil.
50 Lbs. Pump Leather.
45 yds, No 4 Cotton Canvass.
68 " " 6 " "
45 " " 8 " "
25 " " 10 " "
500 " Old Canvass
20 " Bellows Leather.
6 Shots Blotting Paper.
70 Tons Anthracite Coal.

10 Sheets Tin.
2 Chalk Lines.
110 lbs. Round Iron Asst.
2 Carpenters Pencils
1 Set Match Planer.
125 Lbs Spirit gum.
82 " Marlins.
35 " Housline.
55 " 6 Thrd Hemp Rope.
25 " 9 " " "
53 " 12 " " "
90 " 18 " " "
30 " Hambro line.
48 " 2 1/4 in. Hemp Rope.
57 " 1 1/2 " Manila "
70 " 2 " " "
137 " 3 " " "
12 Marlins Spikes.
1 Bending Shackle 172 lbs.
300 Lbs Junk.
46 Corn Brooms.
35 Hickory "
55 Lbs Rigging Leather.
4 Palms.
24 Sail Needles.
2 Bbls, Lime.
4 Lbs Beeswax.
16 Seaming Needles.
6 4 Thrd "
4 Mem. Books.
1/2 Ream Cap. Paper.
1/4 " Note "
1 Gross Steel Pins.
2 Pints Black Ink.
1/2 Cord Pine Wood.
1/2 Cord Pine Wood.

[Editor's note: The following is a continuation of the previous page's note that was attached to the logbook entry for July 24th, 1877.]

Stores Received in Paymaster Department.

255 Galls Beans.	144 Doz D. C. Buttons.
2037 lbs Sugar.	400 Spools Silk.
200 " Rice.	12 Doz Small Buttons
4 Bbls Flour.	25 Tin Pans.
120 lbs Dried Apples	25 " Pots.
1200 " Coffee	24 Can Openers.
300 " Tobacco	6 Mus Kettles.
975 " Soap	7 " Pans.
384 " Preserved Beef	60 Doz Medium Buttons
505 " Sugar	100 Spools Cotton.
4 Bbls Pork	980 yds Flannel.
100 Doz Pearl Buttons.	50 Pairs Calf Skin Shoes.
25 Pairs B. C. Trousers	50 " Kip " "
50 " Duck "	92 yds Sheeting
120 galls Beans.	5904 lbs. Bread.

Stores Received in Engineers Department.

15 Bath Bricks.	168 lbs. Rubber Sheet 1/4 in.
1 Bolt, Main Pillow-Block, Cap.	8 " Rottenstone.
28 lbs Brass Sheet, No. 14.	300 " Sal Soda.
30 " Copper Braziers.	2 Ink stands.
3 bush, Charcoal Hardwood.	3 Bottles Black Ink.
4 lights glass, window 16 x 18.	120/480 Rm. Paper Official.
12 Lamps, Hands, Brass.	120/480 " " Letter.
2 Bbls Lime, Slacked.	120/480 " " Foolscap.
278 galls, Oil, Sperm.	50 Envelopes Letter.
260 lbs Oatmeal.	12 Tube Lamps.
100 " Potash	2 Thermometer Hotwell.
25 " Pipe Copper 1/2 in.	6 Union Brace 1/2 in.
29 " Packing Asbestos 1 1/8 in.	471 lbs Zinc Slab.

under the command of Commander Winfield Scott Schley
Tuesday July 24th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and calm. Bright moonlight. Ebb tide.

(Signed) C. G. Calkins
Master.

From 4 to 8 A.M. Cloudy but pleasant. Calm. Light S.W[ester]ly breeze. Flood tide. At 6.30 started fires in Nos. 1 and 3 boilers. Tug "Triana" was towed up to yard. "Leleigh" got underway and was towed up to dry dock. At 7.45 made interrogatory signal 5455. "Franklin" answered and made 904. At 8 loosed sail.

(Signed) W. H. Allen
Midn.

From 8 to Merid. Cloudy and warm, with light airs from S. and W. Fired pipes put in by Engineers Department, in yard and found them tight. Fires banked in two boilers, average steam pressure 75 lbs. Transferred Wm G. Smith (O.S.2.C.) to Naval hospital. Received from U.S.R.S. "Franklin", Henry Wilson (Sea) shipped for three years from today for general service. Received stores in Equipment, Construction, Engineers and Paymaster Depts, as per appended lists. Past. Asst. Paymaster S. D. Hurlburt returned from leave. D. O'Hara (P.M.) is declared a deserter, he having been absent from the ship ten day without leave.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Partially clear and pleasant first three hours, thunder squalls during last. Light breeze from S.W. Tide turned flood at 3. At 2.30 made interrogatory signal 4826. "Franklin" answered and made 904. At 2.35 furled sail. At 3.30 hauled fires. Engaged in provisioning and watering ship. Midn. R. Henderson was released from suspension. Bailey Leamey (O.S.2.C.) run from gig while ashore on duty.

(Signed) W. G. Hannum
Midn.

From 4 to 6 P.M. Rainy first part of watch, clearing in latter part. Light airs from S. and W.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy and warm. Calm. Flood tide. At 6.10 Battalion was drilled ashore with small arms and gatling gun.

(Signed) T. D. Griffin
Midn.

From 8 to Midnight. Cloudy, with no breeze. High water at 9.

(Signed) C. G. Calkins
Master.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SW	1		30.14	79	81	79		bc	Cum Nimb	1		
2				Calm	0		"	"	"	"		o	"	0		
3				"	"		"	"	80	"		"	"	"		
4				SW	1		"	"	"	78		"	"	"		
5				"	"		30.12	"	"	79		bc	"	2		
6				NE	"		30.10	"	81	80		or	"	0		
7				Calm	0		30.09	"	"	"		bc	"	7		
8				SW	1		30.07	80	82	81		"	Cir Cum	8		
9				"	"		30.06	81	83	82		"	"	"		
10				Calm	0		30.02	82	85	83		"	"	"		
11				"	"		"	83	86	84		"	"	"		
Noon				Variable	0-1		"	85	88	85		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2600
Coal consumed during the preceding 24 hours	1 tons	475 lbs.
Coal remaining on hand at Noon	137	265

P.M																
1			E	2		30.00	88	89	86		bc	Cum Str	7			
2			"	1		29.94	"	"	"		"	"	6			
3			"	"		"	"	"	"		"	"	"			
4			"	"		29.92	"	"	"		"	"	"			
5			"	1-2		29.91	"	"	87		"	"	3			
6			S	"		29.90	"	"	"		"	"	4			
7			"	"			86	88	86		"	Cir Cum	5			
8			"	"		"	"	"	85		"	"	"			
9			Calm	0		29.92	85	86	84		"	"	9			
10			"	"		"	83	85	83		"	"	"			
11			"	"		"	82	"	82		"	"	"			
Mid.			"	"		29.94	"	84	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Wednesday July 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast but pleasant. Light airs from S.W. and calm. Ebb tide. Obscured moonlight.

(Signed) W. H. Allen
Midn.

From 4 to 8 A.M. Cloudy. Rainy first part of watch, clear latter part. Cum. Nimb. clouds. Flood tide. At 6 coal schooner came alongside.

(Signed) Richard Henderson
Midn.

From 8 to Merid. Clear and hot, with light variable airs and calm. Turned ebb at 9.40. At 8.30 commenced coaling ship. Received in Equipment Dept, 500 yards of old canvass.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from E. Coaling ship.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. Tide turned flood at 4. Finished coaling ship. E. F. Ferry (O.S.2.C.) reported return from leave of absence. At 6.30 made interrogatory signal 2984. "Franklin" answered and made 904. Received 70 tons of coal.

(Signed) W. G. Hannum
Midn.

From 8 to Midnight. Clear and pleasant. Calm. Bright moonlight. Turned ebb at 9.30.

(Signed) T. D. Griffin
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1				Calm	0		29.96	82	84	80		bc	Cir Cum	8		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				"	"		29.95	"	"	82		"	"	6		
6				"	"		29.96	"	"	"		"	Cum Nimb	4		
7				"	"		29.98	"	83	"		"	"	2		
8				S by E	1		30.00	"	"	"		or	"	0		
9				"	"		"	"	"	"		bc	"	"		
10				"	"		"	83	84	83		"	"	2		
11				"	"		29.99	"	83	"		"	"	5		
Noon				"	"		"	84	86	84		"	"	6		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water Received during the preceding 24 hours		400 "
Water remaining on hand fit for me at Noon		2900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	136	" 2230 "

P,M																
1			Variable airs	0-1		29.98	85	86	85		bc	Cum Nimb	5			
2			"	"		29.97	86	87	86		"	"	4			
3			"	"		29.96	87	88	"		"	"	"			
4			"	"		29.94	"	89	87		"	"	"			
5			"	"		"	"	"	"		"	"	"			
6			"	"		29.93	"	88	"		"	"	3			
7			"	"		"	86	87	86		"	Cir Cum	4			
8			"	"		"	"	86	84		"	"	6			
9			Calm	0		"	84	85	83		"	Cum Str	5			
10			"	"		"	"	84	82		"	"	6			
11			"	"		"	"	"	"		"	"	"			
Mid.			"	"		"	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "	
Longitude by Chronometer Observations	°	' "	*
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley , U. S. Navy.
Thursday July 26th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Calm and pleasant. Ebb tide. Bright moonlight.

(Signed) C.G. Calkins
Master.

From 4 to 8 A.M. Cloudy, warm. Light variable airs and calm. Flood tide. Made preparations for hauling out from dock.

(Signed) W. H. Allen
Midn.

From 8 to Merid. Overcast and rainy first hour. Cloudy and clear last part of watch. Cum. Nimb. clouds. High water slack at 9.30. At 9.50 mustered at quarters. Made preparations for ~~getting~~ ~~underway~~ hauling out.

(Signed) Richard Henderson
Midn,

From Merid. to 4 P.M. Cloudy and warm, light variable airs and calm. John O' Neil (C. of F.) was released from confinement, his term of sentence having expired. Running ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Weather warm. Light variable airs. Tide turned flood at 5. At 6.15 general assembly was sounded from flag ship. Held Dress Parade and Battalion drill.

(Signed) W. G. Hannum
Midn.

From 8 to Midnight. Clear and calm. Ebb tide at 9. Moon rose at 8.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		29.96	83	83	81		bc	Cir Cum	9		
2			"	"		"	"	"	"		"	"	"		
3			"	"		29.97	82	"	"		"	"	"		
4			SSE	0-1		29.98	83	84	"		"	Cum	"		
5			SW	"		30.00	83	84	"		"	Cum	"		
6			"	"		30.02	"	"	"		"	"	"		
7			"	"		30.05	"	"	"		"	"	"		
8			"	"		"	"	"	"		"	"	"		
9			S	"		"	84	87	85		"	Cir Cum	7		
10			"	"		"	85	89	87		"	"	6		
11			"	"		"	86	90	88		"	"	5		
Noon			Calm	0		30.08	88	91	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2600 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	136	" 1955 "

P.M															
1			SSE	0-1		30.04	90	92	89		bc	Cum Nimb	4		
2			"	1		30.00	"	"	"		"	"	"		
3			"	1-2		29.97	91	93	"		"	"	"		
4			"	2		"	"	"	90		"	"	6		
5			Variable	0-1		29.96	"	"	"		"	"	5		
6			"	"		"	"	92	"		"	"	4		
7			"	"		"	"	"	"		"	"	3		
8			"	"		"	"	"	"		"	"	"		
9			"	"		29.94	90	"	88		"	"	1		
10			"	"		29.93	"	90	86		"	"	"		
11			"	"		"	"	"	"		"	"	"		
Mid.			"	"		29.92	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "
at		

under the command of Commander Winfield Scott Schley
Friday July 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Light airs from S.S.E. last hour. Ebb tide. Bright moonlight.

(Signed) T. D. Griffin
Midn.

From 4 to 8 A.M. Clear and warm. Light airs from S. and W. Flood tide after 4.30. At 7.50 made interrogatory signal 5455. "Franklin" answered and made 904. Loosed sail at 8.

(Signed) C. G. Calkin
Master.

From 8 to Merid. Clear and warm. Light S[outher]ly airs. At 9.20 mustered at quarters. Tide turned ebb at 10. John P. Marker (1.C.B.) is declared a deserter, he having been absent from the ship ten days without leave. John Mason (Mach) reported expiration of time of service.

(Signed) W. H. Allen
Midn.

From Merid. to 4 P.M. Cloudy, partially clear. Warm. Light S[outher]ly airs. At 1 made interrogatory signal 5455. Answered by "Franklin" 904. Furled sail. At 1.15 made interrogatory signal 2984, answered by "Franklin" 904. High water slack 1.50. Received from U.S.R.S. "Franklin" Joseph Smith (Lds).

(Signed) Richard Henderson
Midn.

From 4 to 8 P.M. Cloudy and warm, light variable airs. Battalion, composed of men from "Hartford", "Ossipee" and "Essex", drilled in yard.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast and warm. Light variable airs. High water at 10.45.

(Signed) W. G. Hannum
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				Calm	0		29.98	85	86	85		bclt	Cir Cum	5		
2				"	"		"	"	"	"		"	"	"		
3				"	"		30.00	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				NE	2		30.00	84	85	83		obt	Cum Nimb	0		
6				"	1		30.02	83	"	82		o	"	"		
7				Calm	0		30.03	"	"	"		"	"	"		
8				SSE	1		30.06	"	"	"		bc	Cir Cum	7		
9				S	"		30.05	85	86	83		"	"	8		
10				SW	"		"	"	"	"		"	"	"		
11				"	"		30.03	88	88	84		"	"	"		
Noon				"	"		"	90	91	86		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		600 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2000
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	136	1680

P.M																
1			WSW	2		30.00	89	92	88		bc	Cir Cum	8			
2			W	1-2		29.96	90	93	90		"	"	7			
3			S	0-1		"	"	92	"		"	Cum Nimb	5			
4			Calm	0		29.94	91	"	"		bct	"	"			
5			S	0-1		29.91	"	93	"		bcr	"	"			
6			Calm	0		"	"	92	89		"	"	"			
7			SE	1		29.90	90	91	88		bc	"	"			
8			"	"		"	"	90	87		bcl	"	"			
9			Variable	0-2		29.92	88	88	86		clt	Nimb	0			
10			S	2		"	85	85	83		bltr	"	"			
11			"	"		"	82	82	81		"	"	"			
Mid.			Calm	0		"	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	o	"
Longitude by Chronometer Observations *	o	"
Variation of the Compass by Amplitude observed at Sunset	o	"
Variation of the Compass by at	o	"

under the command of Commander Winfield Scott Schley
Saturday July 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Weather cloudy, with thunder and lightening. Calm. Hot.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast first part, clear and pleasant last hour of watch. Light variable airs.
Turned ebb at 5.30.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Clear and warm. Light airs from S. and W. High water at 10.30. George O. Holden (W.O.C.) and John F. Partlow (O.S.2.C.) were declared deserters, having been absent from the ship ten days without leave. Alexander Owens (W.R.S.) was also declared a deserter, having absented himself from the ship in citizens clothing with intention to desert. Master C. G. Calkins was detached from this ship and ordered to report for duty on board U.S.R.S. "Wyoming" at Washington D.C. by order of Navy Department.

(Signed) C. G. Calkins
Master.

From Merid. to 4 P.M. Clear and warm. Light variable airs. Ebb tide. Held auction sale of deserter effects, proceeds amounting to \$9.65^C.

(Signed) W. H. Allen
Midn.

From 4 to 8 P.M. Clear, partially cloudy, with light showers first hours. Calm, light S.E[aster]ly airs last part of watch. Cum. Nimb. clouds. Low water slack at 5. P.A. Paymaster S. D. Hurlburt was transferred to Naval Hospital Norfolk Va. Lightening in eastern horizon. Sounded assembly at 6.30. Exercised Battalion.

(Signed) Richard Henderson
Midn.

From 8 to Midnight. Cloudy and rainy, with sharp thunder and vivid flash of lightening. Running flood tide.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

P,M									
1	NE	1	29.89	86	88	86	bc	Cum Nimb	4
2	"	"	29.84	"	"	87	"	"	2
3	NE by E	"	"	87	"	"	"	"	"
4	ENE	"	"	86	89	"	"	"	"
5	ESE	1-2	29.82	85	"	86	"	"	1
6	S	1	29.81	86	88	"	"	"	4
7	"	"	29.82	"	86	"	"	Cir Cum	5
8	"	"	"	"	"	"	"	"	4
9	"	"	"	84	"	"	"	Cir Nimb	"
10	Calm	0	"	"	85	85	bcp	"	2
11	"	"	"	"	"	84	bc	"	"
Mid.	"	"	"	"	"	83	"	"	4

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Sunday July 29th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, warm and pleasant. Calm. Ebb tide. Obscured moonlight.

(Signed) W. G. Hannum
Midn.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. and W. Turned flood at 6.30.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Weather warm and pleasant. Light breeze shifting from N.W. to N.E. Light showers latter part of watch. At 10 inspected ship and crew at quarters. Commanding Officer read prayers. John Lucey (O.S.) John Pettit (O.S.) and Thomas Ludden (Lds) was considered deserter from this date, having been absent ten days without permission. High water at 12.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and warm. Light airs from S. and E. Ebb tide.

(Signed) W. H. Allen
Midn.

From 4 to 6 P.M. Cloudy, warm. Light variable airs Cum. Nimb. clouds. Ebb tide.

(Signed) Richard Henderson
Midn.

From 6 to 8 P.M. Clear and warm. Light airs from S. At 6.50 made interrogatory signal 2985. "Franklin" answered and made 904. Turned flood at 7.20.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Weather warm, with occasional light showers of rain. Flood tide. Obscured moonlight. Barometer steady.

(Signed) W. G. Hannum
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

P,M										
1	N by W	1	29.84	86	88	86	bc	Cum Nimb	5	
2	"	2	29.82	87	"	"	"	"	"	
3	N	"	29.80	"	"	"	"	"	6	
4	NNE	3	29.81	"	"	"	"	"	7	
5	"	"	29.80	88	"	"	"	Cum	6	
6	"	"	"	"	"	"	"	"	"	
7	"	2	29.82	87	87	"	"	"	7	
8	"	"	"	86	"	85	"	"	"	
9	Calm	0	29.86	85	86	82	b	None	10	
10	"	"	"	84	"	"	"	"	"	
11	"	"	29.87	83	85	81	"	"	"	
Mid.	"	"	"	"	"	"	"	"	"	

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Monday July 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Light S.S.E[aster]ly airs first part, calm latter part of watch. Lightening to N. and E. Turned ebb at 12.15. Barometer steady.

(Signed) T. D. Griffin
Midn.

From 4 to 8 A.M. Clear and warm. Calm. Light airs from N latter part of watch. Low water at 8. Loosed sail at 8. Made interrogatory 5455, "Franklin" answered 904.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and warm. Light airs from N. Flood tide. At 9.15 inspected at quarters. "Ajax" was towed down from dry dock and made fast to buoys in stream. "Pinta" came to yard from Washington.

(Signed) W. H. Allen
Midn.

From Merid. to 4 P.M. Clear partially. Cloudy. Warm. Cum. Nimb. clouds. Light N[orther]ly breeze. Ensign C. B. T. Moore reported for duty. High water slack at 12.40. At 12.55 made interrogatory signal 4826, answered by "Franklin" 904. Furled sail. At 1.20 made interrogatory signal 2984, answered by "Franklin" 904. Charles White (P.M.) was transferred to Naval Hospital Norfolk Va.

(Signed) Richard Henderson
Midn.

From 4 to 6 P.M. Clear and pleasant. Light wind from N.N.E. Commenced tarring down at 5.30. Running ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light breeze from N. and E. Tide turned flood at 7. Engaged in tarring down rigging during first hour.

(Signed) W. G. Hannum
Midn.

From 8 to Midnight. Clear and calm. Moon rose at 9.45.

(Signed) C.B.T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				Calm	0		29.86	82	83	81		bc	Cir	9		
2				"	"		29.87	81	82	80		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				N	2		29.89	"	"	81		"	Cir Cum	"		
6				"	"		29.90	"	83	"		"	"	8		
7				"	"		29.94	82	"	82		"	Cum Nimb	6		
8				"	"		29.96	"	84	"		"	"	4		
9				NE	3		"	"	"	"		"	"	"		
10				"	4		"	"	85	"		"	"	5		
11				"	"		"	"	"	"		"	"	"		
Noon				"	3		"	83	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		400 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		800 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	136	" 855 "

P.M																
1			NE	3-4	29.96	83	84	82	bcr	Cum Nimb	1					
2			ENE	3-5	"	"	"	"	bcq	"	2					
3			"	"	"	"	"	"	"	"	1					
4			"	3-4	"	"	83	81	bc	"	4					
5			NE	3-5	29.97	82	82	80	bcq	"	3					
6			"	"	29.98	81	80	"	"	"	2					
7			"	"	29.99	"	"	"	"	"	1					
8			"	"	30.00	"	"	"	"	"	"					
9			NNE	3	30.01	80	"	"	oq	"	0					
10			"	"	30.03	79	79	77	bcq	"	1					
11			"	"	"	"	"	"	"	"	3					
Mid.			"	"	"	"	"	"	oq	"	0					

Longitude by Chronometer from Afternoon Observations ☉	°	' "	
Longitude by Chronometer Observations *	°	' "	
Variation of the Compass by Amplitude	°	' "	observed at Sunset
Variation of the Compass by	°	' "	at

under the command of Commander Winfield Scott Schley
Tuesday July 31st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Calm. Turned ebb at 12.30. Bright moonlight.
Barometer steady.

(Signed) T. D. Griffin
Midn.

From 4 to 8 A.M. Clear and pleasant. Light breeze from N. Ebb tide until 7. Engaged in tarring
rigging.

(Signed) W. H. Allen
Midn.

From 8 to Merid. Cloudy and pleasant. Moderate breeze from N. E. Inspected at quarters at
9.30. Drilled at infantry tactics. James B. Stanley (1.C.B.) returned aboard, having been absent
without permission ten days.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Fresh N.E. breeze with light squalls. Cum. Nimb. clouds.
Received from U.S.R.S. "Franklin", George W. King (Lds). Served out clothing. High water slack
at 1.30. Sent clothing, belonging to draft of men, on board "Pinta" to be taken to Washington.

(Signed) Richard Henderson
Midn.

From 4 to 8 P.M. Cloudy and pleasant, with wind fresh in squalls from N.E. At 7 made
interrogatory 2985, "Franklin" answered and made 904. Running ebb tide. G. M. Hermance
(O.S.2.C.) is declared a deserter, he having been absent from the ship ten days without leave.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy and pleasant. Wind fresh in squalls from N. and E. Flood tide.
Barometer steady.

(Signed) W. G. Hannum
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	°	'	"
Longitude by D. R. at Noon	°	'	"
Latitude by Observations at Noon ☉	°	'	"
Longitude by Chronometer from Forenoon Observations ☉	°	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	"	"
Variation of the Compass by Azimuth ☉ observed at	°	"	"
Water expended during the preceding 24 hours			400 gallons.
Water Received during the preceding 24 hours			2200 "
Water remaining on hand fit for me at Noon			3000 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	136	"	580 "

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Wednesday August 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Light breeze from N. by E. increasing to fresh breeze and shifting to N. E. Barometer steady.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from N. and E. Rainy last hour. Turned flood at 7.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Overcast with frequent passing showers. Moderate breeze from N. E. Flood tide. At 9.20 inspected at quarters.

(Signed) W. H. Allen
Midn.

From Merid. to 4 P.M. Cloudy, pleasant. Passing showers. Light breeze from N.E. Assistant Engineer C. L. Dunnett reported for duty aboard this ship. A summons to appear before a civil court in Portsmouth Sept 6th, as witness, was served on Fred Porter (C.H.) Received Scott E. Winfield (Lds) from "Franklin".

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Pleasant. Light E.N.E. breeze. Cum. Nimb. clouds. At 5.40 made interrogatory signal 2984. Answered by "Franklin" 904. Low water slack at 7.15. At 6.15 sounded assembly. Exercised battalion.

(Signed) Richard Henderson
Midn.

From 8 to Midnight. Cloudy, with drizzling rain until last hour when raining continuously. Running flood.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				ENE	2-4		29.92	79	79	78		oqr	Cum Nimb	0		
2				"	"		29.94	78	"	"		"	"	"		
3				"	2-5		29.95	"	"	"		"	"	"		
4				"	"		29.96	"	"	"		"	"	"		
5				"	"		29.97	"	"	"		oq	Nimb	"		
6				NE by E	"		"	"	"	"		"	"	"		
7				"	"		29.95	"	"	"		oqr	"	"		
8				"	3-4		"	"	"	"		"	"	"		
9				"	3-5		"	"	"	"		"	"	"		
10				"	"		"	"	"	"		"	"	"		
11				"	"		"	"	"	"		"	"	"		
Noon				"	"		29.94	"	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		400 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2600 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	136	305 "

P.M																
1				NE by E	3-5		29.94	78	80	79		ogp	Nimb	0		
2				"	"		"	79	"	"		oq	"	"		
3				"	"		29.95	"	81	"		"	"	"		
4				"	"		"	"	80	"		"	"	"		
5				NE	4-5		29.92	78	"	78		"	"	"		
6				"	"		29.90	"	"	"		"	"	"		
7				"	"		"	"	79	"		"	"	"		
8				"	"		"	"	"	"		"	"	"		
9				"	3-6		29.91	77	"	77		opq	"	"		
10				"	"		29.92	"	76	"		"	"	"		
11				"	"		29.93	76	"	76		"	"	"		
Mid.				"	"		29.90	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ☉	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Thursday August 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and rainy. Wind fresh in squalls from N. and E. High water at 2.30.

(Signed) W. G. Hannum
Midn.

From 4 to 8 A.M. Overcast and rainy. Fresh squalls from N. and E. Barometer steady.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Overcast, rainy and squally. Moderate breeze from N.E. by E. fresh in squalls. Turned flood 8.30. Barometer steady.

(Signed) T. D. Griffin
Midn.

From Merid. to 4 P.M. Overcast. Passing showers first hour. Wind fresh in squalls from N.E. by E. Received in Carpenters Department 95 lbs Brazin's Copper and 3 lbs Copper Nails. Tide changed to ebb at 3.30.

(Signed) W. H. Allen
Midn.

From 4 to 8 P.M. Overcast and squally. Fresh breeze from N.E. Made signal 2985, "Franklin" answered 904.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Overcast, cool. Light passing showers. Moderate breeze from N.E. with heavy squalls. Nimbus clouds. Low water slack at 10.

(Signed) Richard Henderson
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

[illegible]

Longitude by Chronometer from Afternoon Observations	⊙	0	1	18
Longitude by Chronometer Observations	*	0	1	18
Variation of the Compass by Amplitude	observed at Sunset	0	1	18
Variation of the Compass by	at	0	1	18

under the command of Commander Winfield Scott Schley
Friday August 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and squally, with passing showers last hour. Running flood tide.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Weather overcast drizzling rain during last hour. Blowing fresh in squalls from N. and E. Tide turned ebb at 6.30. At 7.45 U.S.S. "Ossipee" dropped under sheers.

(Signed) W. G. Hannum
Midn.

From 8 to Merid. Overcast throughout, with moderate to light breeze from E.N.E. Occasionally drizzling rain. Received 400 galls. fresh water.

(Signed) C.B.T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and rainy. Pleasant. Light airs from N.E. by E. High water at 3.30. Carpenter's gang from the Yard at work in port steerage.

(Signed) T. D. Griffin
Midn.

From 4 to 8 P.M. Cloudy. Rainy first hour. Pleasant remainder of watch. Ebb tide. Carpenter's gang from the yard at work in port steerage.

(Signed) W. H. Allen
Midn.

From 8 to Midnight. Overcast. Light N.E. breeze. Turned flood at 10.15.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Hour	knots	Courses steered.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in fifts.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M															
1			ENE	0-1		29.95	75	76	75		bc	Cum Nimb	3		
2			"	"		"	74	75	74		"	"	4		
3			"	"		29.94	"	"	"		"	"	6		
4			"	"		"	"	"	"		"	"	8		
5			Calm	0		29.96	75	76	75		"	Cir Cum	"		
6			"	"		"	"	"	"		"	"	"		
7			"	"		29.98	76	77	76		"	"	"		
8			"	"		"	"	78	"		"	"	"		
9			N	1		29.97	78	80	77		"	"	9		
10			"	"		"	79	81	79		"	"	5		
11			"	"		"	"	"	"		"	"	"		
Noon			"	"		"	"	82	80		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	1	11
Longitude by D. R. at Noon	0	1	11
Latitude by Observations at Noon ☉	0	1	11
Longitude by Chronometer from Forenoon Observations ☉	0	1	11
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	11	11
Variation of the Compass by Azimuth ☉ observed at	0	11	11
Water expended during the preceding 24 hours			400 gallons.
Water		during the preceding 24 hours	11
Water remaining on hand fit for me at Noon			2300 11
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	135	11	1995 11

[illegible]

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	⊙	1
Variation of the Compass by Amplitude	observed at Sunset	⊙	1
Variation of the Compass by	at	⊙	1

under the command of Commander Winfield Scott Schley
Saturday August 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, partially clear first part, clear and moonlight second part of watch. Cum. Nimb. clouds. Light E.N.E. airs. Slack water at 3.30. Barometer falling.

(Signed) Richard Henderson
Midn.

From 4 to 8 A.M. Clear and pleasant. Calm. At 7.20 U.S.S. "Leleigh" steamed down the river. At 8 loosed sail. Running ebb tide.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light breeze from N. Tide turned flood at 8.30. At 9.30 "Franklin" fired a salute of 11 guns. Bailey Leamey (O.S.2.C.) is declared a deserter, he having been absent from the ship ten days without leave. At 11.30 furled sail.

(Signed) W. G. Hannum
Midn.

From Merid. to 4 P.M. Cleaning up, with moderate to fresh breeze from North. Discharged from this ship and the Naval service at his own request, by order of Bureau of Equipment and Recruiting, George H. Pinder (Lds) Tide turned ebb at 2.45.

(Signed) C.B.T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light N.N.E. Ebb tide. At 6, the "Catskill" was towed to the dry dock.

(Signed) T. D. Griffin
Midn.

From 8 to Midnight. Clear and pleasant. Calm. Tide turned flood at 8.30.

(Signed) W. H. Allen
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
Navy Yard Norfolk Va.

Hour	knots	Fathoms.	Courses steered.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prog. of Clear Sky, in fathoms.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.					
A.M.																
1				Calm	0		30.02	72	74	72		bc	Cum	7		
2				"	"		"	"	"	"		"	"	"		
3				"	"		"	"	"	"		"	"	"		
4				"	"		"	"	"	"		"	"	"		
5				"	"		30.07	"	"	"		"	Cir Cum	9		
6				"	"		30.05	"	"	"		"	"	"		
7				"	"		30.09	73	"	"		"	"	"		
8				S and E	0-1		30.10	75	75	73		"	"	"		
9				East	2		30.08	76	77	74		"	"	"		
10				North	"		"	77	80	"		"	"	"		
11				"	"		"	78	"	77		"	"	"		
Noon				"	"		"	79	"	"		"	"	"		

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	o	'	"
Longitude by D. R. at Noon	o	'	"
Latitude by Observations at Noon ⊙	o	'	"
Longitude by Chronometer from Forenoon Observations ⊙	o	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"	"
Variation of the Compass by Azimuth ⊙ observed at	o	"	"
Water expended during the preceding 24 hours			400 gallons.
Water		during the preceding 24 hours	"
Water remaining on hand fit for me at Noon			1900 "
Coal consumed during the preceding 24 hours	tons	275	lbs.
Coal remaining on hand at Noon	135	"	1720 "

P,M									
1	N	2	30.07	80	81	78	bc	Cir Cum	9
2	"	"	"	"	82	"	"	"	"
3	NE	"	30.04	"	"	"	"	"	"
4	ENE	"	30.01	"	"	"	"	"	"
5	NE by E	"	30.02	81	"	"	"	"	"
6	"	"	"	"	81	"	"	"	"
7	"	"	30.03	80	80	77	"	"	"
8	Calm	0	"	79	79	76	b	None	10
9	SSW	1	30.06	78	78	75	"	"	"
10	"	"	"	76	"	74	"	"	"
11	"	"	"	75	76	"	"	"	"
Mid.	"	"	30.07	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations	⊙	1	18
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Sunday August 5th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Calm. Ebb tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Calm. Ebb tide. Cir. Cum. clouds.

(Signed) Richard Henderson
Midn.

From 8 to Merid. Clear and pleasant, with light breeze from North. Tide turned flood at 10.30. at 9.30 had divisional inspection. At 9.45 the Commander inspected ship and crew at quarters. At 10, called all hands to muster and read articles for better government of the Navy. Read prayers. Mustered crew. Sent a party of twenty five men on liberty until 8 P.M.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and E. Flood tide. Barometer falling.

(Signed) W. G. Hannum
Midn.

From 4 to 8 P.M. Clear and pleasant, with light breeze from N. and E. Tide turned ebb at 5. Calm at 8 o'clock.

(Signed) C.B.T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. and W. Turned flood at 11.30.

(Signed) T. D. Griffin
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			Calm	0		30.08	79	74	74		b	None	10		
2			SSE	1		"	74	73	73		bc	"	"		
3			"	"		"	73	"	72		"	"	"		
4			"	"		"	"	"	"		"	Cir Cum	9		
5			SSW	2		"	"	"	"		"	"	5		
6			"	"		"	"	"	"		"	"	"		
7			"	"		"	"	"	"		"	"	4		
8			"	"		"	"	"	"		"	"	5		
9			WSW	"		30.07	74	76	75		"	"	6		
10			NNW	"		30.06	75	78	77		"	"	7		
11			"	"		30.04	77	80	79		"	"	6		
Noon			"	"		30.01	79	82	82		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		400 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1500 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	135	" 1445 "

P.M															
1			NE	2		30.00	80	83	82		bc	Cir Cum	7		
2			"	"		29.98	81	84	"		"	"	8		
3			"	"		29.96	83	85	85		"	"	"		
4			SE	1		29.94	84	"	"		"	"	9		
5			S	"		29.93	"	"	84		"	"	"		
6			"	"		29.92	"	84	83		"	"	"		
7			"	"		"	"	83	"		"	"	"		
8			S by E	"		"	"	"	81		"	"	"		
9			Calm	0		"	82	82	80		b	None	10		
10			SSW	2		29.95	81	81	79		"	"	"		
11			"	"		29.96	80	"	"		"	"	"		
Mid.			"	"		"	"	80	"		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Monday August 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. and E. Flood tide.

(Signed) W. H. Allen
Midn.

From 4 to 8 A.M. Cloudy and pleasant. Light breeze from S. and W.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear. Warm. Light breeze from W. shifting to N. Cir. Cum. clouds. At 9.20 inspected at quarters. James Hackett (2.C.B.) and Nicholas Lynch (2.C.B.) absent without. By order of Commanding Officer, Eugene Buckley (P.M.) was placed in solitary confinement on bread and water for being asleep on post. Received from U.S.R.S. "Franklin". John P. Roberts (Lds E. F.) P. A. Paymaster S. D. Hurlburt returned from Hospital. Navy Yard hands at work in port steerage. Ebb tide.

(Signed) Richard Henderson
Midn.

From Merid. to 4 P.M. Clear and warm, light breeze from N.E. until last hour, when shifted to S.E. Discharged John Mason (Mach) his turn of service having expired on the 27th ultimo. Tide turned flood at 12.15.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. Tide turned ebb at 6.30.

(Signed) W. G. Hannum
Midn.

From 8 to Midnight. Clear and pleasant. Ebb tide. Light breeze from S.S.W.

(Signed) C.B.T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Navy Yard Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface				
A,M															
1				SSW	1		29.95	78	78	77	b	None	10		
2				"	"		"	"	"	"	"	"	"		
3				"	"		"	"	"	"	"	"	"		
4				"	"			76	"	76	"	"	"		
5				"	"		"	"	"	77	bc	Cir Cum	3		
6				"	2		29.97	"	"	"	o	Cum Nimb	0		
7				"	"		"	"	80	"	bc	"	1		
8				SW by S	"		"	78	82	78	or	"	0		
9				SW	"		"	"	"	"	"	"	"		
10				"	"		29.95	80	"	79	"	"	"		
11				"	3		29.94	"	83	80	"	"	"		
Noon				"	3-4		29.92	"	"	"	bc	"	2		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 Gallons.
Water Received during the preceding 24 hours		1500 "
Water remaining on hand fit for me at Noon		3000 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	142	" 1310 "

P,M															
1			SW	2-3		29.90	80	83	80	bc	Cum Nimb	1			
2			"	"		29.88	"	"	"	"	"	3			
3			S	"		29.87	82	84	82	"	"	"			
4			"	2		29.86	"	"	"	"	"	4			
5			SSW	"		29.84	"	83	81	"	"	5			
6			"	"		"	"	"	"	"	"	4			
7			"	"		29.83	"	"	"	bcp	"	2			
8			"	"		"	"	"	"	"	"	3			
9			"	1-2		29.85	"	82	"	bc	"	"			
10			"	"		29.87	"	"	"	"	"	"			
11			SW	0-1		"	"	"	"	"	"	5			
Mid.			"	"		"	"	"	"	"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations *	o	"	"
Variation of the Compass by Amplitude observed at Sunset	o	"	"
Variation of the Compass by at	o	"	"

under the command of Commander Winfield Scott Schley
Tuesday August 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool and pleasant. Light airs from S. and W. Tide turned flood at 2.15. Moon rose at 2.30.

(Signed) T. D. Griffin
Midn.

From 4 to 8 A.M. Cloudy but pleasant first part, light fall of rain last hour. Light breeze from S.S.W. High water at 7.

(Signed) W. H. Allen
Midn.

From 8 to Merid. Overcast and rainy first part of watch. Cleaning in latter part. Light S.W. breeze. Received 7 tons 140 lbs of coal from Navy Yard. Navy Yard workmen belonging to Construction Department engaged in altering room on port side of steerage.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Warm. Passing showers. Light S.W[ester]ly breeze. Cum. Nimb. clouds. Nicholas Lynch and James Hackett (1.C.Boys) were brought aboard by police, and by order of Commanding Officer were placed in double irons to await trial by Court Martial. Low water slack at 1.40. Navy Yard hands at work in port steerage. Engaged in watering and coaling ship. Received in Equipment Department the following stores, Viz. 1/2 Reams Cap Paper. 220 Lbs Bolt Rope. 171 Lbs Manilla. 950 Yds. N^o 4 Cotton Canvas. 30 Lbs Cotton Twine. 12 Lbs Beeswax. 10 Oval Thimbles. 52 Round Thimbles. 2 Mattresses. 2 Pillows. 70 Grate Bars. 1 Top Plate.

(Signed) Richard Henderson
Midn.

From 4 to 8 P.M. Cloudy and warm, with passing showers last two hours. Wind light from S.S.W. Carpenters from Yard finishing work in port steerage. High water slack at 7.40. Finished coaling, having received 7 140/2240 tons.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from S. and W. Tide ebb.

(Signed) W. G. Hannum
Midn.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Off Fort Norfolk Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SW	1		29.97	82	82	81		bc	Cir Cum	8		
2				"	"		"	"	"	"		"	"	7		
3				"	"		"	"	"	"		"	"	"		
4				Calm	0		29.96	"	"	"		"	"	6		
5				SW	1		29.84	78	79	78		o	Nimb	0		
6				"	"		29.85	"	"	"		"	"	"		
7				"	"		29.86	"	"	"		"	"	"		
8				"	"		"	79	81	79		bc	Cir Cum	2		
9				WSW	"		29.85	80	83	79		"	"	3		
10				SW	"		"	82	84	"		"	"	5		
11				"	2		"	"	"	"		"	"	"		
Noon				"	"		29.83	"	85	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		300 gallons.
Water Condensed during the preceding 24 hours		100 "
Water remaining on hand fit for me at Noon		2900 "
Coal consumed during the preceding 24 hours	1 tons	835 lbs.
Coal remaining on hand at Noon	141 "	475 "

P.M																
1				SW	2		29.80	84	85	83		bc	Cum Nimb	5		
2				"	"		29.74	"	"	"		"	"	4		
3				"	"		29.78	"	"	"		bclt	"	3		
4				"	"		"	"	"	"		"	"	5		
5				"	"		"	"	85	"		bc	"	2		
6				"	3		"	84	84	80		or	"	0		
7	Underway			S	"		29.77	83	83	79		"	"	"		
8				"	"		29.80	"	82	78		op	"	"		
9				"	3-4		29.82	82	"	80		"	"	"		
10				"	"		"	"	"	"		"	"	"		
11				"	4-5		"	"	81	79		bcp	"	"		
Mid.				"	"		"	"	80	"		op	"	"		

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	*	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	at	"

under the command of Commander Winfield Scott Schley
Wednesday August 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, with light airs from S.W. Tide turned flood at 1.30. At 2, started fires under boilers Nos. 1, 2, 3, and 4.

(Signed) C.B.T. Moore
Ensign.

From 4 to 8 A.M. Overcast and pleasant, cleaning up latter part of watch. Light airs from S. and W. Flood tide. At 4.30 singled fasts and prepared to get underway. Pilot came on board at 5. At 6, engines reported ready. At 6.05 got underway. At 6.35 came in to anchor off Fort Norfolk, swing to 15 fathoms on port chain in 5 fathoms water. At 6.40 crossed royal yards. At 7 Pilot left the ship. Draught forward 13 ft. 11 in. Amidships 14 ft. 11 in. Aft 16 ft. At 6.50 started fires in two more boilers. Banked fires in four boilers.

(Signed) T. D. Griffin
Midn.

From 8 to Merid. Clear and pleasant. Light breeze from S. and W. Ship swung to ebb at 9.45. Sent working party to Fort Norfolk to load ammunition lights. Thomas I. Maddin (1.C.B.) remained ashore without leave. Received in ships company Wm. C. Robinson (Lds), he having enlisted for the cruise of the "Essex".

(Signed) W. H. Allen
Midn.

From Merid. to 4 P.M. Cloudy and warm. Light breeze from S.W. Nimbus clouds. A light thunder shower passed at 3. Received and stowed below ammunition. At 3.30 Pilot returned.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy. Rain squalls last part of watch. Cum. Nimb. clouds. At 4.50 engines reported ready. At 5.15 got underway and stood down Elizabeth river in charge of Pilot. Draught water forward 14 feet, Amidships 15 feet, Aft 16 feet. At 6.15 made our number, answered by "Powhatan." "Powhatan" made general signal 1244. At 6.55 came to anchor in Hampton Roads Va, in 10 1/2 fathoms water, swing to 45 fathoms port chain. Bearings at anchor. Old Point Light N.N.E. 1/4 E. Thimbles E. by N 3/4 N. Rip Raps S.E. 1/2 S. At 7.05 sent down royal yards. Flood tide. Commanding Official visit to Flagship.

(Signed) Richard Henderson
Midn.

From 8 to Midnight. Cloudy, with passing showers of rain. Fresh breeze from South. At 9.20 slack water. At 9.35 swung to ebb. Allowing fires to die out. Distilling. Average steam pressure 30 lbs.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SW	1-3		29.82	78	81	80		or	Cum Nimb	0		
2				"	"		"	"	80	79		"	"	"		
3				"	"		"	"	79	78		bc	"	2		
4				"	1-2		"	"	"	"		"	"	1		
5				"	2		"	"	"	77		o	Nimb	0		
6				"	"		"	"	"	78		"	"	"		
7				"	"		"	"	"	"		"	"	"		
8				"	"		"	"	"	"		"	"	"		
9				"	1		"	"	"	"		or	"	"		
10				Calm	0		"	"	80	79		o	"	"		
11				E	1		29.80	"	"	"		op	"	"		
Noon				"	"		"	79	"	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2600
Coal consumed during the preceding 24 hours	1 tons	435 lbs.
Coal remaining on hand at Noon	140	40

P.M																
1				Calm	0		29.80	79	80	79		o	Cum Nimb	0		
2				NW	1		"	"	"	"		op	"	"		
3				NE	"		"	"	"	"		bdp	"	1		
4				"	"		29.79	"	"	"		o	"	0		
5				ESE	"		29.76	"	"	78		bc	Cir Cum	1		
6				"	"		29.74	"	"	"		"	"	3		
7				Calm	0		29.75	"	"	"		"	"	"		
8				"	"		29.76	"	"	79		"	"	2		
9				"	"		29.79	"	"	"		"	"	5		
10				NW	1		"	"	"	"		"	Cum Nimb	6		
11				"	2		"	"	"	"		bcp	"	4		
Mid.				"	"		29.78	"	"	78		bc	Cir Cum	5		

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Thursday August 9th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast Cloudy. Rainy during first two hours. Light breeze, freshening in puffs from S.W. Riding to ebb. At 2 stopped distilling and hauled fires in all boilers.

(Signed) W. G. Hannum
Midn.

From 4 to 8 A.M. Overcast with light breeze from S.W. Tide turned flood at 5.40. At 7.30 Flagship signaled 3351, answered. Signaled to Flagship 4363. Flagship answered 986, answered.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Overcast and warm. Calm first part, light airs from E. latter part of watch. Light sprinkling of rain during part of watch. At 9.45 made interrogatory signal 6222. Flagship answered 904, answered. By order of Commanding Officer, placed John Hall (1.C.B.) in solitary confinement, on bread and water, for skulking and insolence to B. Mate, and released Eugene Buckley (P.M.) Ship swung to ebb at 10.30. Scraped spars. Chief Engineer P.A. Rearick left the ship on leave of absence for 36 hours.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Overcast, with frequent passing showers. Light variable airs. Riding to ebb tide.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy and warm. Light airs first part from S. and E, calm latter part. Slack water at 4.10. Swung to flood at 4.50. At 6.45 Flagship made signal 2985, answered. P. A. Paymaster H. T. Stancliffe reported for duty by order of Navy Department. Rear Admiral Trenchard and Captain Fillebrown called on Commanding Officer.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from N.W. Passing showers third hour. Tide turned ebb at 10.45.

(Signed) Asa Walker
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				NW	3		29.76	77	79	77		bc	Cum Nimb	5		
2				"	4		"	76	77	75		"	"	8		
3				"	3		29.78	"	76	"		"	"	"		
4				WNW	"		"	"	"	"		b	None	10		
5				"	"		29.82	75	77	76		bc	Cum	9		
6				"	"		29.85	"	"	"		"	"	"		
7				"	"		"	77	"	"		"	"	"		
8				"	"		"	78	78	"		"	"	"		
9				NW	"		29.87	79	80	77		b	None	10		
10				"	2		"	"	81	79		bc	Cir Cum	9		
11				"	1		29.88	80	82	80		"	"	"		
Noon				"	"		29.89	"	83	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		2300 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	" 2005 "

P.M																
1			WNW	0-1		29.89	81	83	80		bc	Cir Cum	8			
2			"	1-2		29.88	82	84	81		"	"	"			
3			W	1-3		29.87	83	85	"		"	"	"			
4			"	3		29.88	"	"	82		"	"	9			
5			SSW	1		"	84	86	84		"	"	8			
6			Calm	0		"	"	"	"		"	Cum Str	9			
7			"	"		29.89	"	"	"		"	"	"			
8			SE	0-1		29.90	"	85	"		"	"	"			
9			"	0-2		29.91	83	84	83		"	"	8			
10			S	2		29.92	82	83	81		"	"	"			
11			SW	"		29.93	81	82	80		"	"	"			
Mid.			"	"		29.94	80	"	79		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley , U. S. Navy.
Friday August 10th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Moderate breeze from N. and W. Ebb tide.
(Signed) C.B.T. Moore
Ensign.

From 4 to 8 A.M. Clear. Cool. Pleasant. Light W.N.W. breeze. Cumulus clouds. Slack water at 5.20. Swung to flood at 5.45. At 7.20 Flagship made general signal 3960, answered, then made general signal 3354, answered. At 7.45 Flagship made preparatory signal 5456. At 7.55 Flagship made general signal 5456. At 8, loosed sail to a bowline.
(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light breeze from N.W. Slack water at 11. Swung to ebb at 11.30. At 11.15 Flagship made preparatory general signal 4826, answered. At 11.30 Flagship made general signal 4826. Furled sail. Engaged in breaking out fore hold.
(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light W[ester]ly breeze. Cirrus Cumulus clouds. Broke out the hold and took an inventory of the Paymasters stores. At 1, Flagship signaled 2984. Got deep sea sounding apparatus ready for use. Ebb tide.
(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear. Warm. Light variable airs and calm. Slack water at 5. Swung to flood at 5.45. Stowed hold.
(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Clear. Pleasant. Light S.E. breeze. Cumulus Stratus clouds. Slack water 11.00. Swung to ebb 11.30.
(Signed) Asa Walker
Lieut.

Examined and found to be correct
(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			W	2		29.94	80	81	80		bc	Cum	9		
2			WNW	3		29.96	78	80	79		"	"	"		
3			"	2		29.98	"	79	"		"	"	"		
4			NW	"		"	77	78	77		"	"	"		
5			WNW	"		30.02	"	"	"		"	"	"		
6			"	0-1		30.06	"	"	"		"	"	"		
7			NW	2		"	"	"	"		"	"	"		
8			NE	"		30.09	79	80	78		"	"	"		
9			N	"		"	80	81	"		"	Cum Str	"		
10			"	"		30.10	"	82	"		"	"	"		
11			"	"		"	"	"	"		"	"	"		
Noon			NE	"		30.09	"	"	80		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon	°	' "
Longitude by Chronometer from Forenoon Observations	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	°	" "
Variation of the Compass by Azimuth	°	" "
Water expended during the preceding 24 hours		300 gallons.
Water	during the preceding 24 hours	"
Water remaining on hand fit for me at Noon		2000 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	" 1730 "

P.M															
1			NE	2		30.09	80	82	79		bc	Cum Str	9		
2			"	"		30.07	81	83	80		"	"	"		
3			"	"		"	"	"	"		"	"	"		
4			"	"		"	"	"	81		"	Cum	"		
5			"	"		30.08	"	"	"		"	"	"		
6			"	"		"	"	"	"		"	"	"		
7			NNE	1		"	"	82	78		"	"	"		
8			Calm	0		30.10	80	81	79		"	"	"		
9			"	"		30.11	"	"	"		b	None	10		
10			S	1		"	79	80	"		"	"	"		
11			"	2		30.12	"	"	"		"	"	"		
Mid.			"	"		"	"	"	"		"	"	"		

Longitude by Chronometer from Afternoon Observations	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Saturday August 11th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light breeze from N. and W. Riding to ebb tide.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear, warm and pleasant. Light N.W[ester]ly breeze shifting to N.E. Tide turned flood at 6.20. Barometer rising. Received on board a draft of three marines, from Marine Barracks Washington D.C.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Clear. Warm. Light N[orther]ly breeze shifting to N.E. Cum. Str. clouds. At 10 Flagship made general signal 2240. Broke out Paymaster's storerooms. High water 11.45.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light N.E. breeze. Ship riding to ebb. At 3.30 hove log, tide running 3 knots. Finished breaking out, and restowed Paymaster's storerooms.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear. Warm. Light N.E[aster]ly breeze. Cumulus clouds. Low water 6.15. Swung to flood 6.45. Commander W.S. Schley left the ship on 2 1/2 days leave of absence.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant, with light breeze from S. Riding to flood.

(Signed) Asa Walker
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			N	3		30.11	77	78	75		bc	Cir Cum	9		
2			"	"		"	76	77	"		"	"	"		
3			"	"		"	"	"	"		"	"	"		
4			"	"		"	"	"	"		"	"	"		
5			S	"		30.12	"	"	74		"	Cir Str	"		
6			S by W	2		30.14	"	"	75		"	Str	"		
7			"	"		"	"	78	76		"	"	"		
8			"	"		"	77	80	78		"	"	"		
9			SSW	"		30.13	80	83	81		"	Cum	"		
10			S	"		30.12	"	"	"		"	"	"		
11			"	1		30.11	82	"	"		"	"	"		
Noon			"	0-1		30.10	"	84	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ☉	°	' "
Longitude by Chronometer from Forenoon Observations ☉	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ☉ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ☉ observed at	°	" "
Water expended during the preceding 24 hours		500 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		1500 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	" 1455 "

P.M															
1		ENE	2		30.10	83	84	82		bc	Cir Cum	8			
2		"	"		30.07	"	85	"		"	"	"			
3		"	"		30.05	"	"	83		"	"	"			
4		ESE	"		30.03	"	84	81		"	"	"			
5		SE by S	"		30.02	"	86	"		"	"	"			
6		"	3		30.00	"	85	82		"	"	9			
7		"	"		29.98	"	"	81		"	"	"			
8		S	"		29.99	80	83	80		"	"	"			
9		SE	"		30.00	"	"	79		"	"	"			
10		S	4		"	79	82	"		"	"	"			
11		"	4-5		"	"	81	"		bcl	"	8			
Mid.		"	"		"	78	80	78		"	"	"			

Longitude by Chronometer from Afternoon Observations ☉	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Sunday August 12th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light N[ortherly] breeze. Cir. Cum. clouds.
High water at 12.15. Swung to ebb at 12.45.

(Signed) Samuel C. Lemly, Ensign.

From 4 to 8 A.M. Clear and pleasant. Light S. by W. breeze. Low water at 6.30. Swung to flood
at 8. At 7.30 "Powhatan" signaled 3960 and 3352, answered.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear warm and pleasant. Light S[outherly] airs. Ship riding to flood. At 9
U.S.S. "Huron" exchanged numbers with Flagship, and at 9.30 anchored in the Roads. U.S.S.
"Swatara" exchanged numbers with Flagship at 10.30. At 9.45 inspected at quarters. Executive
Officer inspected ship. Allen Christian (Nurse) and George Vaughn (Lds) absent without leave.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and warm. Light breeze from E.N.E. shifting to S. At 12.20 U.S.S.
"Swatara" came in and anchored. At 1 swung to [blank] At 3 U.S.S. "Swatara" got
underway and steams toward Norfolk. Twenty five men returned from detached service, at
Washington D.C.

(Signed) C.B.T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from S. and E. Low water at 7. Allen
Christian (Nurse) and George Vaughn (Lds) confined in double irons for overstaying liberty 35
hours. At 6.30 Flagship signaled 2995, answered.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and cool. Gentle breeze from S.E. increasing to fresh breeze from S.
latter part of watch. Moon set at 8.50. Heat lightening in western horizon. Ebb tide.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			S and E	3-4		30.00	80	80	79		bct	Cum	8		
2			S and W	"		29.99	79	"	"		"	"	"		
3			"	3-5		29.98	"	"	78		bcq	"	"		
4			"	"		29.99	"	"	"		"	"	"		
5			SW	4		30.00	78	78	76		bc	Cir Cum	5		
6			"	"		30.01	"	"	"		"	"	3		
7			"	3		"	"	79	77		"	"	8		
8			"	2		"	"	81	78		"	"	5		
9			"	3		29.99	79	"	79		"	"	8		
10			"	"		29.96	80	82	80		"	"	"		
11			S	"		29.95	85	83	81		"	"	9		
Noon			"	"		29.92	82	86	82		"	"	6		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		500 gallons.
Water Received during the preceding 24 hours		1900 "
Water remaining on hand fit for me at Noon		2900 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	" 1180 "

P.M															
1		SW	4		29.91	84	86	83		bc	Cir Cum	4			
2		"	3-5		29.90	"	"	"		Bcq	Cum Nimb	2			
3		"	"		"	83	82	80		bcqplt	"	"			
4		S	3		"	82	83	"		bc	"	3			
5		SW	"		29.88	"	84	82		"	"	6			
6		"	"		"	"	"	81		"	"	4			
7		SSW	"		"	83	"	"		"	"	1			
8		SW	"		29.90	"	"	"		"	"	"			
9		"	"		"	82	82	80		"	"	3			
10		"	"		29.91	"	"	79		bcl	"	4			
11		S	"		"	"	"	"		"	"	6			
Mid.		"	4		29.93	80	79	77		"	"	5			

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Monday August 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Fresh breeze, blowing in puffs, from S. and W. Tide turned ebb at 1 o'clock.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Moderate breeze from S.W. Ebb tide. Engaged in painting ship outside. Slack water at 7.30. At 7.30 Flagship made general signal 3356, answered. Made interrogatory signal 4363, Flagship answered and made 904.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and warm. Moderate breeze from S. and W. George Vaughn (Lds) and Allen Christian (Nurse) were released from confinement to attend to their duties, by order of Commanding Officer, to be returned to confinement in the evening. "Pinta" got underway and steamed towards Norfolk. At 9 swung to flood. At 9.15 broke out and bent Mainsail and light sails. At 10 made interrogatory signal 4160. At 10.05 made interrogatory signal 2255, "Powhatan" answered 904. At 10.15 sent down topgallant yards. Got topgallant and royal yards in rigging.

(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy, warm, squally. Fresh S.W[ester]ly breeze. Heavy rain squall passed at 2.30. Swung to ebb at 1.45. At 1.15 Flagship made signal to "Essex" 1087.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Cloudy and pleasant. Moderate breeze from S. and W. Ebb tide. At 6 made signal 4881. "Powhatan" answered 904. Bent fore topsail. Received onboard three O.S.E.F. and one seaman from U.S.R.S. "Franklin".

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and cool. Moderate breeze from S. and W. Swung to ebb at 10.15. Lightening to E. and W.

(Signed) Asa Walker
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SSW	4-5		29.92	78	78	77		bog	Cum Nimb	7		
2				"	"		"	77	77	76		"	"	3		
3				"	"		"	76	76	75		oql	"	0		
4				"	5-6		"	"	77	76		bc	"	5		
5				SW	3		29.93	"	"	"		"	Cir Cum	4		
6				"	"		29.93	75	"	75		"	"	"		
7				"	"		29.94	"	"	74		"	"	"		
8				"	"		29.95	"	"	"		"	"	"		
9				"	4		29.97	77	79	77		"	"	2		
10				"	"		29.99	"	"	"		"	"	"		
11				"	"		29.97	78	80	77		"	"	3		
Noon				"	"		29.96	82	81	79		"	"	2		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		260 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2800
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	905

P.M																
1			SW	4		29.94	80	82	80		bc	Cir Cum	2			
2			"	"		29.91	"	"	"		"	"	3			
3			"	3		29.90	84	84	82		"	"	4			
4			"	"		"	"	"	"		"	"	"			
5			"	"		"	82	83	80		"	Cum Nimb	1			
6			"	2		"	"	84	82		"	"	"			
7			"	3-5		"	"	83	80		oq	"	0			
8			"	3		"	"	82	79		bc	"	1			
9			"	4		"	81	80	78		"	"	2			
10			"	3-5		"	80	79	77		"	"	"			
11			"	"		29.91	79	78	76		"	"	1			
Mid.			"	"		"	78	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Thursday August 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Fresh breeze from S.S.W. Squally. Ebb tide.
Heat lightening in horizon to W.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Cool. Pleasant. Cir. Cum. clouds. Scrubbed hammocks. At 7.
Commander W. S. Schley returned on board from leave. At 7.15 made interrogatory signal
5455. Flagship answered 904. At 7.30 Flagship made general signal 3352, answered. At 8
loosed sail. Received in Pay Department [blank] lbs fresh beef and [blank] lbs of vegetables.
Low water at 8.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Cloudy, cool. Moderate breeze from S.W. Swung to flood, at 9.45. At 9.30
inspected at quarters. At 10, Flagship made signal 1087 to "Essex". At 11.20 made interrogatory
signal 5955. Flagship made preparatory general signal 4826, and then general signal 4826.
Furled sail. Made interrogatory signal 3918, Flagship answered and made 904. Lieutenant C. K.
Curtis reported for duty. By order of Commanding Officer, A. T. Leigh (1.C.B.) and W. H.
Danforth (O.S.2.C.) were confined in double irons for disobedience of orders. Received in ships
company, James W. Cline (Lds) he having enlisted for three years, general service.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy. Pleasant. Fresh S.W[ester]ly breeze. Cir. Cum. clouds. At 1.30
mustered at quarters and turned in scrubbed hammocks. High water at 2. At 2.45 sighted U.S.S.
"Enterprise" standing in. At 3, U.S.S. "Enterprise" exchanged numbers with "Powhatan". At 3.30
U.S.S. "Enterprise" came to anchor between "Huron" and "Powhatan".

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Cloudy. Cool. Pleasant. Moderate S.W[ester]ly breeze. Slack water at 7. At
7.45, Flagship made general signal 2985. At 7, Flagship hauled down Admiral's Pendant and
hoisted that of senior officer.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Squally. Light passing showers first hour. Swung to
flood at 10.30.

(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Hampton Roads Va.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				SW	4		29.91	76	78	78		o	Cum Nimb	0		
2				"	"		29.92	"	"	"		bc	"	7		
3				"	3		"	"	76	75		"	"	8		
4				"	"		"	"	"	74		"	"	7		
5				S and W	"		29.90	75	75	74		"	"	4		
6				"	"		"	74	"	"		"	"	"		
7				"	"		"	"	"	"		"	"	2		
8				N and W	2		29.91	"	76	"		od	"	0		
9				WSW	"		"	"	77	"		op	"	"		
10				"	"		"	75	78	"		"	"	"		
11				W	"		"	76	"	75		o	"	"		
Noon				"	1		"	"	"	76		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2570
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	139	630

P.M																
1			W	0-1		29.90	77	79	77		o	Cum Nimb	0			
2			"	"		29.89	78	80	78		bc	"	1			
3			SSW	"		29.87	"	81	"		"	Cum	3			
4			"	"		29.80	79	"	"		"	"	5			
5			S	"		29.81	80	"	"		oc	Cum Nimb	7			
6			SE	2		29.83	"	80	77		bc	"	8			
7			"	3		29.84	"	"	"		"	"	"			
8			"	4		"	"	"	"		"	"	9			
9			SSW	3		29.87	77	79	"		bcl	"	8			
10			SW	3-5		"	"	78	75		"	"	5			
11			"	2-3		"	"	"	"		"	"	2			
Mid.			"	0-2		29.88	"	"	"		bc	"	"			
Longitude by Chronometer from Afternoon Observations ⊙											o	"	"			
Longitude by Chronometer Observations								*			o	"	"			
Variation of the Compass by Amplitude								observed at Sunset			o	"	"			
Variation of the Compass by								at			o	"	"			

under the command of Commander Winfield Scott Schley
Wednesday August 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy first hour, afterwards clear, cool. Moderate S.W[ester]ly breeze. Swung to ebb at 1.30.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Weather overcast, drizzling rain during last hour. Light wind from S. and W, shifting to N. and W. At 5.30 U.S.S. Huron got underway and stood out to sea. At 7.30 Flagship made signals 3950 and 3355, answered. Ship riding to ebb tide.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast. Passing showers first part of watch. Cum. Nimb. clouds. Otto V. Wrisberg, Master at Arms, absent without leave. Pay Clerk J. C. Petty reported for duty. Slack water at 9.30. Served out monthly money. At 9.30 inspected at quarters and exercised 1st and 2nd Divisions at great guns.

(Signed) Samuel C. Lemly

From Merid. to 4 P.M. Overcast first part, clear and pleasant latter. Light airs from W. and S.S.W. Ship swung to the ebb at 3.45. By order of Commanding Officer, suspended Francis E. Cross. (Eng Yeo) from duty, to be confined to the berth deck until further orders, for sending an insolent message to Officer of Deck. Hooked topsail sheets and forward Main tacks and sheets.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 P.M. Clear, warm. Calm and light S.E[aster]ly breeze Cum. Nimb. clouds. Riding to ebb. At 5.30 "Swatara" came down and anchored between this vessel and "Powhatan".

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear first hour, overcast and cool during latter part. Wind freshening in puffs from S. and W. By order of Commanding Officer, confined Luther Baker (2. M.) in double irons, for intoxication and fighting.

(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

[illegible]

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Thursday August 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Fresh breeze, with heavy squalls, from S.W. Cum. Nimb. clouds. At 2.30 swung to wind. At 3.30 changed ebb.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light W.S.W. breeze. Ebb tide. At 8 loosed sail. At 7.45 Flagship signaled preparatory 5455 and 8, 5455.

(Signed) James K Cogswell
Lieut.

From 8 to Merid. Clear. Warm. Pleasant. Light S.W. Tide turned flood at 11.20. By order of Commanding Officer, Luther Baker (2.M.) was released from confinement. Making preparations for sea. At 11 started fires under six boilers. Made interrogatory 4886, Flagship answered 904.

(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Light airs from S. and W. At 1, furling sail. At 1.20 mustered at quarters and found Otto V. Wrisberg (M. at A) and Thos F. Madden (1.C.B.) absent without leave. At 2, got underway. Engaged in clearing foul anchor. Draught forward 14 ft, 2 in. Amidship 15 ft, 1 in. Aft 16 ft. Steaming 3/4 power out of Hampton Roads under direction of Pilot. Average steam pressure 65 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and warm. Light airs from S. and E. At 5, Pilot left the ship. Took departure at 6, Cape Henry Light bearing (pc) S. Steaming under six boilers. Average steam pressure 55 lbs. Temp. of bunkers 100°. Revolutions 45.

(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Light S.E[aster]ly breeze. Cir. Cum. clouds. By order of Commanding Officer, Francis E. Cross (Eng Yeo) Wm. H. Danforth (O.S.2.C.) and A. T. Leigh (1.C.B.) was released from confinement. James Hackett (2.C.B.) and Nicholas Lynch (2.C.B.) prisoner at large. At 8 got cast of lead, 12 fathoms, coarse sand black specks. At end of watch Cape Henry bore (pc) W.N.W. Cape Charles (pc) W. 1/2 N. Steaming six boilers. Steam pressure 55 lbs. Revolutions 45. Distilling.

(Signed) Samuel C. Lemly, Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from S. and E. Steaming with six boilers. At 8.30 lost sight of Cape Henry Light and at 9.27 lost sight of Cape Charles Light. Moon set at 11. Got soundings every two hours. Steam pressure 66 lbs. Revolutions 44.5. Distilling.

(Signed) C.B.T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots		Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																	
1	7	0	E 3/4 N	S	2		29.91	80	81	80	71	bcl	Cum Nimb	6	S		
2	7	0	"	"	"		29.90	"	80	79	"	bl	None	10	"		
3	7	0	"	"	"		"	"	"	"	"	"	"	"	"		
4	7	0	"	"	3		"	"	"	"	"	"	"	"	"		
5	2	0	"	SSW	2		29.93	"	81	80	75	bc	Cum	9	"		
6	Hove to.			"	"		29.95	"	83	"	"	"	"	"	"		
7	6	4	E 3/4 N	"	"		"	"	"	81	"	"	Cir Cum	6	"		
8	7	0	"	"	"		"	"	"	"	"	"	"	4	"		
9	2	6	"	SE by S	"		29.97	"	"	"	79	"	"	3	"		
10	7	2	"	"	"		29.98	"	"	"	"	"	"	5	"		
11	3	6	"	"	"		29.96	"	"	"	"	"	"	6	"		
Noon	Taking soundings			"	"		29.97	"	"	"	"	"	"	5	"	Spanker & M. Try sails.	

Distance run by Log since preceding Noon	96 knots	6 fathoms.
Latitude by D. R. at Noon	37 ° 02 ' 00 "	"N.
Longitude by D. R. at Noon	73 ° 59 ' 00 "	"W.
Latitude by Observations at Noon ⊙	37 ° 15 ' 40 "	"N.
Longitude by Chronometer from Forenoon Observations ⊙	73 ° 41 ' 00 "	"W.
Current during the time 1 knots fms. per hour, setting to the NE.		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° "	"
Variation of the Compass by Azimuth ⊙ observed at 7.30 A.M.	3 ° 30 "	00 "W.
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		315 "
Water remaining on hand fit for me at Noon		2355 "
Coal consumed during the preceding 24 hours	12 tons	595 lbs.
Coal remaining on hand at Noon	121 "	200 "

P.M																
1	3	4	E	SSE	3		29.97	80	83	80	81	bc	Cir Cum	1	S	Fore and aft sail,
2	7	0	"	"	"		"	"	"	"	"	"	Cum Nimb	2	"	except fore trysail
3	3	0	"	S	"		29.96	81	"	"	"	"	"	"	"	and gaff topsail.
4	3	0	"	SSE	4		"	"	82	78	"	"	"	3	"	"
5	7	6	"	S	"		"	79	80	"	79	"	Cir Cum	2	"	"
6	3	4	"	SSW	3		29.95	"	"	"	"	"	"	6	"	"
7	3	4	"	"	"		29.96	"	"	"	"	"	"	7	"	Topsails, jib
8	9	0	"	"	"		29.99	"	"	77	"	"	Cum	9	"	M. T. M. S. S. and
9	5	0	"	"	"		30.00	78	"	"	"	"	"	"	"	spanker. M. T. S.
10	0	0	"	"	"		"	"	"	"	"	"	"	"	"	"
11	6	6	"	"	"		30.01	80	"	"	"	"	Cir Cum	8	"	Spanker, M. T. S.
Mid.	6	6	"	"	"		30.03	"	"	"	"	"	"	"	"	Jib, foresail.

Longitude by Chronometer from Afternoon Observations ⊙	° ' "	"
Longitude by Chronometer Observations *	° ' "	"
Variation of the Compass by Amplitude observed at Sunset	° ' "	"
Variation of the Compass by at	° ' "	"

under the command of Commander Winfield Scott Schley
Friday August 17th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. Heavy dew. Lightening in Eastern horizon. Got cast of lead at 2 and 4 in 75 and 90 fathoms, bottom grey sand. Steaming 3/4 power. Average pressure 60 lbs. Revolutions 43. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light breeze from S. and W. At 4.20 stopped engine and got cast of deep sea lead, use deep sea sounding apparatus in 914 fathoms. Soft oozy bottom. At 7.55 stopped engines and got cast of deep sea lead in 963 fathoms. Bottom soft ooze. Average steam 65 lbs. Revolutions 41. Distilling.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Hazy. Cir. Cum. clouds. At 8.40 started ahead. At 7, set spanker, M. trysail and head sails. At 9.15 inspected crew at quarters. At 9.45 sounded fire alarms. Times as follows Viz. Cast loose, 1st and 2nd Div, 2 m. Pdr [Powder] Div, 2 m. 15 s. Marine 2 m. 15 s. Eng's Div, 2 m. 30 s. Secure. 1st Div 2 m. 15 s. 2nd Div 1 m. 30 s. Pdr Div, 2 m. Eng's Div, 1 m. 15 s. Nav. Div, 1 m. 15 s. At 10.30 hauled down head sail and stopped to take soundings, got cast of lead in 1298 fathoms. Engaged remainder of watch in reeling up wire. Exchanged colors with an American ship standing to N. and W. Steaming 3/4 power. Steam pressure 60 lbs. Revolutions 45. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy but pleasant. Hazy. Light breeze from S. and E, freshening during latter part. At 12.15 started engines. At 1.30 exchanged colors with an American schooner standing to N. and W. At 2.30 stopped to take soundings. Bottom at 1536 fathoms. At 3.35 started engine. Steam in six boilers. 60 lbs. Revolutions 41. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Hazy. Light breeze from S. and W. At 5.30 hauled down head sails and stopped engine to take soundings. Bottom at 1617 fathoms. Steam in six boilers, pressure 65 lbs. Revolutions 41. Distilling.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and W. At 6.30 started ahead. Called all hands make sail, set topsails. Revolutions 41. Average steam pressure 65 lbs. Running under steam and sail.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light S.S.W. breeze. Cir. Cum. clouds. Bright moonlight. At 8.20 took in and furled topsails, hauled down head sails, stopped engine and got cast of lead in 1675 fathoms, oozy bottom. At 10.05 started ahead, set head sails and at 10.15 set foresail. At 10.50 moon set. Steaming six boilers. Steam pressure 58 lbs. Revolutions 44. Temp of bunkers 108°.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots Fathoms.			WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																	
1	2	4	E		SSW	3		30.00	79	80	77	80	bc	Cum Nimb	5	S	Topsails, T. G. sails, fore
2	Sounding				"	2		"	"	"	78	"	"	"	9	"	sail, fib, M. T. S.
3	4	0	E		S	"		"	"	"	"	"	"	"	8	"	F. T. M. S.S. Spanker
4	7	4	"		"	"		"	"	"	"	"	"	"	"	"	gaff topsail.
5	5	0	"		"	1		30.02	"	"	"	"	"	"	5	"	
6	2	0	"		W by S	2		30.04	"	"	"	"	"	"	8	"	
7	1	4	"		"	"		"	"	"	"	"	"	"	"	"	
8	1	4	"		WSW	"		30.04	"	81	80	"	"	Cir Cum	9	"	All plain sail,
9	1	6	"		"	"		30.05	80	82	"	"	"	"	8	"	except main sail and
10	2	0	"		SSW	"		"	82	83	"	81	"	"	9	"	gaff topsail.
11	2	4	"		SW	"		"	"	"	"	"	"	"	7	"	
Noon	3	0	"		"	"		"	"	84	81	"	"	"	4	"	Same with gaff topsail.

Distance run by Log since preceding Noon 91 knots 4 fathoms.

Latitude by D. R. at Noon 37 ° 15 ' 40 "N.

Longitude by D. R. at Noon 71 ° 46 ' 30 "W.

Latitude by Observations at Noon ⊙ 37 ° 22 ' 00 "N.

Longitude by Chronometer from Forenoon Observations ⊙ 71 ° 36 ' 00 "W.

Current during the time knots 4 fms. per hour, setting to the N.E. by E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at ° " "

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 500 "

Water remaining on hand fit for me at Noon 2620 "

Coal consumed during the preceding 24 hours 4 tons 200 lbs.

Coal remaining on hand at Noon 117 " "

P.M																	
1	2	4	E		SSW	2		30.05	81	83	80	81	bc	Cir Cum	5	S	
2	2	6	"		"	"		"	"	"	81	82	"	"	7	"	All plain sail
3	2	4	"		"	"		30.02	"	"	"	"	"	"	"	"	except Msl, with gaff
4	2	4	"		WSW	"		"	"	"	"	"	"	"	6	"	topsail.
5	2	4	"		"	"		"	"	84	82	"	"	"	5	"	"
6	2	4	"		W	"		"	"	83	81	"	"	"	6	"	"
7	2	4	"		WNW	"		"	"	82	80	"	"	"	7	"	"
8	2	0	"		"	1		"	"	"	"	"	"	"	9	"	All plain sail except
9	1	0	"		"	"		30.04	"	"	"	"	"	"	7	"	Msl, with jib.
10	1	2	"		WSW	"		30.05	"	"	"	"	"	Cum	"	"	"
11	1	4	"		"	"		"	81	81	78	"	"	"	"	"	"
Mid.	1	4	"		"	"		"	80	80	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations *

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Saturday August 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from S. and W. At 12.30 stopped engine to sound. Furled foresail and hauled down head sails. Bottom at 1876 fathoms. At 2.20 started ahead. Made sail to topgallant sails and gaff topsail, except mainsail. Allowed fires to die out in four boilers. Steam 60 lbs. Revolutions 29. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and W. At 7.50 crossed royal yards, set royals and flying jib. Uncoupled screw at 5. Steam in two boilers, pressure 35 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant during first part, clouding over during latter part of watch. Light breeze from S. and W. Ship under all plain sail to royals, except fore try sail and main sail. At 9 housed smoke stack. Fires banked in two boilers. Thos. J. Madden (1.C.B.) is declared a deserter having been absent from the ship ten days without leave.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Clear and warm. Light S.S.W. breeze. Cir. Cum. clouds. At 3 stopped firing and stopped distilling. Wind veering, braced in the yards.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and warm. Light breeze from S.S.W. shifting to W. At 4.30 took in spanker and main trysail, hauled down fore topmast staysail. At 4.45 hauled down flying jib.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from N. and W. At 6.30 mustered at quarters. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant, clouding over during last hour. Light airs from S. and W. Ship under all plain sail with jib, and except mainsail, fore and main trysail, spanker and gaff topsail.

(Signed) C. K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	6	E	W	1-2		30.05	80	81	78	81	bc	Cir Cum	5	S	All plain sail,
2	1	4	"	"	"		"	"	"	"	"	"	"	7	"	Msl and jib.
3	1	4	"	"	"		"	"	80	77	80	"	"	4	"	"
4	1	4	"	"	"		30.04	"	"	"	"	"	"	1	"	"
5	2	0	"	NW by N	2		30.03	"	"	"	81	om	Cum Nimb	0	"	All plain sail,
6	2	4	"	"	"		30.04	"	79	"	"	o	"	"	"	Msl, gaff except topsail.
7	1	6	"	NNW	1		30.05	"	"	"	"	"	"	"	"	"
8	6	"	"	"	0-1		30.06	"	80	"	"	"	"	"	"	"
9	4	"	"	"	"		"	79	81	78	82	"	"	"	"	All plain sail
10	4	"	"	"	"		"	"	"	79	"	"	"	"	"	except flying jib.
11	4	"	"	"	"		"	80	82	"	83	"	"	"	"	"
Noon	4	"	"	"	"		"	81	"	80	"	"	"	"	"	"

Distance run by Log since preceding Noon 40 knots 2 fathoms.

Latitude by D. R. at Noon 37 ° 24 ' 00 " N.

Longitude by D. R. at Noon 70 ° 45 ' 00 " W.

Latitude by Observations at Noon ☉ 37 ° 50 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 69 ° 41 ' 00 " W.

Current during the time 2 knots 0 fms. per hour, setting to the E.N.E.

Variation of the Compass by Amplitude ☉ observed at Sunrise 8.30 A. M. 7 ° " " W.

Variation of the Compass by Azimuth ☉ observed at " " " "

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2390 "

Coal consumed during the preceding 24 hours tons 925 lbs.

Coal remaining on hand at Noon 116 " 1315 "

P,M																
1	4	E 1/2 S	NNW	0-1	30.06	82	83	81	83	o	Cum Nimb	0	S	All plain sail, except		
2	4	"	"	"	30.04	"	84	"	"	"	Cum	"	"	F.T.M.S.S. jib, gaff ts.		
3	4	"	"	"	30.02	83	"	"	"	"	"	"	"	"		
4	4	"	"	"	30.03	"	"	"	"	"	"	"	"	"		
5	No steerage way		"	"	"	80	83	80	"	"	"	"	"	"		
6		"	Calm	0	30.01	"	82	"	"	"	"	"	"	Plain sail, except flying		
7		"	"	"	30.02	"	"	79	82	"	Cum Nimb	"	"	jib, F.M.S.S. G. Ts.		
8		"	"	"	30.03	"	"	"	"	"	"	"	"	"		
9		"	"	"	"	"	"	"	"	"	"	"	"	Topsails, T. G. sails		
10		"	"	"	"	"	"	"	"	"	"	"	"	Royals jib,		
11	4	E 1/2 N	SE	2	"	"	80	77	81	opq	"	"	"	Courses, jib spanker		
Mid.	3	4	ENE 1/2 E	"	3	"	78	78	75	82	"	"	"	Topsails, T. G. sails jib.		

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations *

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Sunday August 19th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Pleasant. Light W. airs. Cir. Cum. clouds. Hazy.
Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast but pleasant. Light breeze from N. and W. Misty first hour. Breeze
dying out last part. At 6.30 set spanker, flying jib and fore topmast staysail. At 7.40 set gaff
topsail.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Overcast and warm. Light airs from N. and W. At 9, loosed and set main sail.
At 9.30 Commanding Officer inspected ship and crew at quarters, afterwards read prayers. A
bark in sight on starboard beam. Sea smooth.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and warm. Calm and light airs from N. and W. Sips under all plain
sail, except fore try sail, flying jib and gaff topsail.

(Signed) C. K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy. Warm. Light N.N.W. airs Cumulus clouds. At 5.35 hauled up courses
and hauled down fore topmast staysail. Barometer falling slowly.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Overcast. Warm. Calm. No steerage way. At 7 took in spanker. Barometer
rising slowly.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Overcast and pleasant. Calm first part, light breeze from S. and E. latter
part of watch. Squally, with light showers of rain. At 10.45 light breeze sprung up from S.E.
Wore ship and brought by wind on starboard tack. Took in royals.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1	4	4	E 1/2 N	S by E	2-4		30.04	78	77	75	80	oq	Cum Nimb	0	S	Plain sail to T. G.
2	3	0	ENE	SE by S	0-3		30.02	77	78	76	"	"	"	"	"	sail, except T. and M. try sail
3	No steerage way				0		"	"	78	"	"	bc	"	"	"	"
4			S and E		1		30.00	78	80	"	"	o	"	"	"	Same, except courses and
5	0	4	S 1/2 E	E	3		29.99	"	"	"	"	"	"	"	"	spanker.
6	1	4	SSE	"	4		"	"	"	77	"	or	"	"	"	All plain sail
7	2	0	S by E	E	5		"	"	"	"	81	"	"	"	"	except royals T. jib,
8	5	0	S 1/2 E	"	"		29.98	"	78	75	83	"	"	"	"	gaff topsail.
9	5	4	SSE	E	4		29.97	"	"	77	84	"	"	"	"	"
10	6	2	S 1/4 W	ESE	5		29.96	77	"	76	"	"	"	"	"	"
11	6	6	N by E 3/4 E	E	"		29.95	"	"	"	85	op	"	"	"	"
Noon	6	4	NNE 1/4 E	"	"		29.93	"	79	77	"	"	"	"	"	"

Distance run by Log since preceding Noon

47 knots

4 fathoms.

Latitude by D. R. at Noon

37 °

45 '

00 "

" N.

Longitude by D. R. at Noon

69 °

45 '

00 "

" W.

Latitude by Observations at Noon ☉

-- °

-- '

-- "

"

Longitude by Chronometer from Forenoon Observations ☉

67 °

26 '

00 "

" W.

Current during the time knots fms. per hour, setting to the

°

"

"

Variation of the Compass by Amplitude ☉ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ☉ observed at

Water expended during the preceding 24 hours

230 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2160 "

Coal consumed during the preceding 24 hours

tons

275

lbs.

Coal remaining on hand at Noon

116

"

1040

"

P,M

1	7	6	NNE 1/2 E	SE	5-7	1/2	29.95	77	79	76	82	opq	Cum Nimb	0	M	Courses T. G. sails
2	7	0	NE by E	"	6	"	29.92	"	77	"	80	ogr	"	"	"	Topsails T. T. M. S.S.
3	4	0	"	"	4	1	"	76	"	"	81	"	"	"	"	and spanker.
4	2	4	NE by N	E	3	0	"	"	"	"	"	or	"	"	"	"
	1	0	SSE													
5	3	0	S by E	E by S	"	"	29.93	"	"	"	"	"	"	"	"	"
6	4	0	SE 1/2 S	ENE	4	"	29.90	"	"	"	84	"	"	"	"	"
7	4	4	SSE 1/2 E	"	5-6	1/2	29.87	77	78	"	83	orq	"	"	"	Double reefed topsails
8	4	0	SSE 3/4 E	"	"	"	"	"	79	"	84	"	"	"	"	Courses F.T.M. S.S.
9	3	0	SE by S	E by N	3-5	"	29.98	"	"	77	82	oq	"	"	"	spanker.
10	2	0	SE by E 3/4 E	E	3	"	"	"	"	"	"	or	"	"	"	"
11	1	2	S by E	E by S	"	"	29.87	"	"	"	"	"	"	"	"	Same except M. sail.
Mid.	1	0	"	"	2	3/4	29.85	"	78	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉

°

'

"

Longitude by Chronometer Observations

*

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley
Monday August 20th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Moderate breeze with puffs from N. and E. during first two hours. At 2.15 wind dying out took in Courses and spanker, and hauled down F. T. staysail. At 3.30 braced round. Ship under topsails, T. G. sails, spanker and jib.

(Signed) C. K. Curtis
Lieut.

From 4 to 8 A.M. Overcast. Rainy. Moderate breeze from E. Cum. Nimb. clouds. At 6.45 set courses, and at 7.15 set F. T. M. staysail. At 7.45 exchanged colors with Spanish steamers bound to N. and E. Breeze increasing towards end of watch. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast. Rainy. Fresh E[aster]ly breeze. At 10, tacked ship. Barometer falling slowly.

(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and rainy. Squally. Fresh breeze from S. and E. At 3.30 wore ship. Sighted several sail during watch.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and rainy. Moderate breeze from N. and E. last hour. Ship under plain sail to T. G. sails except Trysails. Barometer falling.

(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Overcast. Squally. Fresh breeze from E.N.E. Cum. Nimb. clouds. At 6.30 took in T. G. sails and took double reef in topsails. Hauled down and stowed jib. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Moderate breeze from E decreasing towards end of watch. At 10, took in mainsail. Barometer falling.

(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	0	SE 1/2 S	NE	3-5		29.84	77	78	77	83	orq	Nimb	O	S	
2	1	4	"	"	3		29.82	"	"	"	"	"	"	"	"	
3	1	4	NE	"	"		29.80	"	"	"	"	orlq	"	"	"	
4	1	0	N by E	SE	5-7		29.74	"	"	"	"	o	"	"	"	
5			Lying to	S and E	5-8		29.72	78	"	78	"	org	"	"	R	
6			"	"	5-7		29.70	80	80	79	"	"	"	"	"	
7	5	4	E by S	S	4-6		29.68	"	82	80	"	bc	Cum Nimb	2	"	
8	3	0	"	E	5-7		29.70	"	80	78	"	bcr	"	"	"	
9			Lying to	NE	6-8		29.65	78	"	"	"	bcq	"	6	"	
10			"	"	"		29.71	"	"	"	"	"	"	8	"	
11			"	"	"		29.73	"	"	"	"	opg	"	0	"	Close reefed topsails
Noon	2	0	ESE 1/2 E	"	"		29.65	"	79	"	"	"	"	7	"	And M. trysail reefed. F. T. M. S. S.

Distance run by Log since preceding Noon	61 knots	2 fathoms.
Latitude by D. R. at Noon	37 °	49 ' 00 " N.
Longitude by D. R. at Noon	66 °	45 ' 30 " W.
Latitude by Observations at Noon ⊙	38 °	05 ' 32 " N.
Longitude by Chronometer from Forenoon Observations ⊙	65 °	49 ' 00 " W.
Current during the time 2 Knots fms. per hour, setting to the E.N.E. 1/2 E.		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		400 "
Water remaining on hand fit for me at Noon		2330 "
Coal consumed during the preceding 24 hours	3 tons	1075 lbs.
Coal remaining on hand at Noon	112 "	2205 "

P.M																
1	4	6	E by S	N	5-7		29.65	78	81	78	82	bcq	Cum Nimb	5	R	
2	5	2	"	"	4-6		29.64	"	"	79	"	"	"	"	"	
3	5	0	"	"	"		29.63	79	82	80	81	"	Cir Cum Nimb	4	"	
4	5	0	"	"	"		29.65	"	"	"	"	"	"	3	"	
5	5	0	"	NNW	3-5		29.70	80	81	79	"	"	"	4	"	F. T. M. S. S. jib Foresail
6	4	0	"	NW by W	"		29.70	"	82	80	"	"	"	"	"	reefed topsails, M
7	3	4	"	W by N	2-4		29.75	"	"	"	"	og	"	0	"	trysail, except [t] jibs.
8	4	0	"	W	"		29.74	"	"	"	"	bcq	"	2	"	"
9	4	0	"	"	3-4		"	"	80	79	"	bcql	"	4	"	Double reefed topsail
10	7	0	"	"	3-5		29.76	"	"	"	"	"	"	3	"	Foresail. F.T.M.S.S>
11	7	4	"	"	3-6		29.78	"	"	78	"	"	"	2	"	
Mid.	8	0	"	"	"		29.80	"	"	"	"	"	"	3	"	

Longitude by Chronometer from Afternoon Observations ⊙	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude observed at Sunset	°	'	"
Variation of the Compass by at	°	'	"

under the command of Commander Winfield Scott Schley
Tuesday August 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast. Squally. Continuous rain. Lightening to S. and W. At 2.45 wind shifted to S. and E. Furlled mainsail and took in spanker and foresail. Sent down topgallant yards. Barometer falling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Overcast, squally and rainy. Blowing moderate gale from S. and E. At 4.40 called all hands reef topsails, furlled fore topsail and foresail, took close reef in main topsail. Hove to under close reefed main topsail, storm mizzen and fore topmast sail. Started fires in six boilers. At 6, gale moderating, set fore sail and shook reefs out of topsails. Ship rolling deep but easily. At 7.45 lost second cutter, the sea striking the boat and detaching the boat apparatus. At 8, struck by squall from N. and W, close reefed fore and main topsails and set storm mizzen. Rough sea.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Clear, partially cloudy. Passing showers. Moderate gale with heavy squalls from N.E. Cum. Nimb. clouds. At 10, set main trysail. At 11.20 set foresail. Fires banked in six boilers. Average pressure 40 lbs. Two sails in sight at end of watch. Secured boats and guns with athwartship tackles.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy, pleasant. Fresh breeze, with squalls, from N. At 2.45 shook one reef out of topsails. At 3.30 hoisted jib. Let fires die out in two boilers. Fires banked in four. Steam pressure 40 lbs. Temp of bunkers 94°. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Fresh breeze from N. and W. Squally. At 5.30 brailed up main trysail. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Weather overcast. Wind moderate, with squalls from N. and W. At 6.15 crossed top gallant yards and hauled down jib and fore storm staysails. At 7.30 squared away wind hauling aft.

(Signed) C. K. Curtis
Lieut.

From 8 to Midnight. Cloudy, partially clear. Strong wind with heavy squalls from W. Cum. Nimb. clouds. Lightening to N. At 10, hauled fires in two boilers. At 11, sighted steamer standing to N. Banked fire in two boilers. Average pressure 25 lbs. Distilling. Sailing under double topsails, foresail and fore topmast staysail.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	8	0	E by S	WSW	6-8		29.79	79	80	78	81	bcq	Cum Nimb	7	R	Double reefed topsails,
2	7	6	"	SW by W	"		29.78	"	"	"	80	"	"	5	"	foresail and F.T.M.S.S.
3	7	4	"	SW	"		"	"	"	"	"	"	"	3	"	"
4	7	2	"	"	"		"	"	"	"	"	bcql	"	6	"	"
5	7	0	"	SSW	"		29.80	"	"	"	81	"	"	5	"	"
6	7	6	"	"	"		29.83	"	"	79	"	bcgp	"	6	"	"
7	8	4	"	"	"		29.85	"	"	"	"	"	"	5	"	Single reefed topsails,
8	7	6	"	"	"		"	80	"	"	"	bcq	"	4	"	T. G. sails, jib, F.T.M.S.S.
9	8	4	"	S by W	"		29.83	"	82	80	"	"	"	"	"	"
10	9	2	"	"	"		29.84	79	"	79	"	"	"	"	"	Same with M. trysails.
11	9	4	"	"	"		29.85	"	"	"	82	"	"	2	"	"
Noon	6	6	"	"	"		"	"	"	80	"	"	"	"	"	Same without M. Trysails.

Distance run by Log since preceding Noon 158 knots 2 fathoms.

Latitude by D. R. at Noon 37 ° 54 ' 40 " N.

Longitude by D. R. at Noon 62 ° 29 ' 00 " W.

Latitude by Observations at Noon ☉ 37 ° 48 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 61 ° 23 ' 00 " W.

Current during the time 2 knots 2 fms. per hour, setting to the E. 1/2 S.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 8 A.M. 13 ° " " W.

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 350 "

Water remaining on hand fit for me at Noon 2450 "

Coal consumed during the preceding 24 hours 2 tons 235 lbs.

Coal remaining on hand at Noon 110 " 1970 "

P.M																
1	3	6	E by S	SSW	6-8		29.83	80	83	80	83	bcq	Cir Cum Nimb	4	R	Single reefed topsail
	5	2	E 1/2 S	"	"		"	"	"	"	"	"	"	"	"	T. G. sails, foresail,
2	8	4	"	"	"		"	"	"	"	"	"	"	"	"	jib, F.T.M.S.S.
3	9	0	"	"	"		29.84	"	"	"	"	"	"	6	"	"
4	9	0	"	"	5-7		"	"	"	"	"	"	"	7	"	"
5	8	4	"	"	"		29.85	"	"	"	81	"	"	6	"	"
6	8	4	"	"	"		29.86	"	"	"	"	"	"	7	"	"
7	8	6	"	SW	"		29.91	81	82	"	82	"	"	"	"	"
8	9	0	"	"	"		29.92	"	"	"	"	"	"	8	"	"
9	8	2	"	"	"		29.91	"	"	"	"	"	"	5	"	"
10	8	0	"	"	4-6		29.90	"	"	"	"	"	"	7	"	"
11	8	0	"	"	"		29.92	80	"	"	"	"	"	2	"	"
Mid.	9	0	"	"	"		29.94	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Wednesday August 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, squally weather. Strong breeze from S. and W. Moonlight.
Moon set at 3.30. Ship rolling easily.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Strong breeze from S.S.W. Squally. Passing storms of rain.
At 5.30 shook one reef out of topsails. At 6, set T.G. sails and jib. At 8 loosed mainsail. Barometer
steady last two hours. Ship rolling easily. Several sail in sight at end of watch. High dawn.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and pleasant. Strong breeze, with squalls, from S. and W. At 9 set mainsail,
took in Mainsail at 9.15 and set Main trysail. At 11, furlled Mainsail. Passing showers of rain. At 9.30
mustered at quarters. Five sail in sight at end of watch.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Clear, partially cloudy. Strong wind, with squalls, from S.S.W. Mackerell sky.
At 12.20 changed course to E. 1/2 S. At 12.40 passed Italian Bark standing to E. and exchanged
colors with her. At 1.30 clewed down T. G. sails. Made International Code of signals B.N.W. Bark
answered B.Q.G.N. Then she made B.P.F. we answered B.R.G.M. We made B.P.F. She answered
B.H.P.D. At 1.50 hoisted topgallant sails. At 3.20 passed spar resembling topmast. Fires banked in
two boilers. Distilling. Average pressure 25 lbs. At end of watch Bark bore broad off weather quarter
hull down.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and pleasant. Strong breeze from S.S.W. with squalls. Barometer rising
slowly. Ship rolling easily.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Strong wind from S.W. Squally. Heavy following sea. Bright
moonlight. At 6.30 mustered at quarters. Light scud passing to N.E.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Bright moonlight during first two hours, clouding over from
S. and W. last two. Fresh breeze from S.W. Ship under single reefed topsails, T.G. sails, foresails
and fore topmast stay sail.

(Signed) C. K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	8	0	E 1/2 S	SW	4-6		29.94	80	80	77	80	bcq	Cum Nimb	1	M	Single reefed topsails
2	7	4	"	SSW	"	"	"	"	"	78	"	bcql	"	"	"	T. G. sails Foresail
3	7	2	"	"	"	"	29.91	"	"	"	"	org	"	0	"	and jib.
4	6	0	"	"	3	"	29.92	"	"	"	"	"	"	"	"	
5	3	4	"	S by W	2	"	"	"	79	"	"	bcq	"	3	"	Topsails T. G. sails
6	4	2	"	SSW	3	"	29.93	"	"	77	"	bc	"	6	"	Foresail, jib F.T.
7	5	4	"	SW	4	"	29.94	"	81	79	"	"	"	5	"	M.S.S.
8	6	0	"	"	"	"	"	"	"	"	"	"	"	4	"	
9	6	0	"	"	3	"	29.97	79	"	78	"	"	"	1	"	Jib F.T.M.S.S.
10	6	0	E 1/2 N	"	"	"	"	"	"	"	"	"	"	"	"	Foresail, T. G. sails,
11	5	6	"	"	"	"	"	"	"	69	"	"	"	"	"	Royals, Lee clew of
Noon	4	4	"	"	"	"	"	"	"	68	"	"	"	"	"	Mainsails.

Distance run by Log since preceding Noon	173 knots	6 fathoms.
Latitude by D. R. at Noon	38 ° 00 ' 00 "	" N.
Longitude by D. R. at Noon	57 ° 43 ' 30 "	" W.
Latitude by Observations at Noon ⊙	38 ° 12 ' 40 "	" N.
Longitude by Chronometer from Forenoon Observations ⊙	57 ° 42 ' 30 "	" W.
Current during the time 0 knots 4 fms. per hour, setting to the N.E. by N.		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	° "	"
Variation of the Compass by Azimuth ⊙ observed at 8 A.M.	13 ° 20 " 00 "	" W.
Water expended during the preceding 24 hours	230 gallons.	
Water Condensed during the preceding 24 hours	350 "	
Water remaining on hand fit for me at Noon	2570 "	
Coal consumed during the preceding 24 hours	tons 505 lbs.	
Coal remaining on hand at Noon	110 " 1465 "	

P.M																
1	5	0	S 1/2 N	SW	3		29.95	79	81	78	81	bc	Cum Nimb	1	M	"
2	5	0	"	"	"	"	"	"	82	"	"	"	"	"	"	"
3	6	0	"	S and W	3-5		29.94	"	81	"	"	oqr	"	0	"	"
4	6	0	"	"	"	"	29.92	"	"	"	"	oq	"	0	R	"
5	4	0	"	"	"	"	29.88	78	77	76	"	orq	"	"	"	T. G. sails, Topsails
6	4	4	E	"	2-4		29.86	"	"	"	"	bc	"	2	"	F.T.M.S.S., jib.
7	5	2	"	SSW	4		29.87	"	78	"	"	"	"	5	"	Courses, single
8	5	4	"	"	"	"	29.89	"	79	"	"	"	"	7	"	reefed topsails,
9	4	6	"	"	"	"	29.91	"	"	77	"	bcl	"	1	"	T. G. sails, jib,
10	5	0	"	"	"	"	"	"	"	"	"	"	"	"	"	F. T. M. S. S.
11			"	"	"	"	"	"	"	"	"	"	"	"	"	"
Mid.			"	"	"	"	"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙	° ' "	"
Longitude by Chronometer Observations *	° ' "	"
Variation of the Compass by Amplitude observed at Sunset	° ' "	"
Variation of the Compass by at	° ' "	"

under the command of Commander Winfield Scott Schley
Thursday August 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy first part of watch, with passing showers of rain. Cloudy and rainy latter part. Cum. Nimb. cloud. Fresh breeze with light squalls from S.S.W. Fires banked in two boilers. Stopped distilling at 2.30. Lightening to S. and E. Steam 25 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Rain squalls first hour, pleasant remainder of watch. Moderate breeze from S.W. At 7.30 shook reefs out of topsails. Fires dying out in two boilers.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Moderate breeze from S.W. At 8.30 crossed royal yards and set royals. At 9 changed course to E. 1/2 N. At 9.30 mustered at quarters.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and pleasant. Squally last two hours. Moderate breeze from S. and W. At 3.45 took in and furled royals, set weather clew of mainsail. Otto V. Wrisberg (Master at Arms) is declared a deserter, having been absent from the ship ten days without leave.

(Signed) C. K. Curtis
Lieut.

From 4 to 6 P.M. Overcast. Rainy. Squally. At 4.15 hauled up mainsail, clewed up T. G. sails. At 5 changed course to E. At 5.35 set mainsail. At 5.55 set T. G. sails. Rough sea. Barometer falling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy but pleasant. Moderate breeze from S.S.W. At 6.30 reefed topsails. Mentioned at quarters. Moon totally eclipsed.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Fresh breeze from S. and W. first part, shifting to S. latter part of watch. Moon partially eclipsed until 9. Bright moonlight. Lightening in horizon to S.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	6	0	E	SW	3-4		29.92	79	80	78	81	bc	Cum	7	M	Single reefed T. sails,
2	6	0	"	"	"		29.90	"	"	"	"	"	"	"	"	T. G. sails Courses,
3	6	4	"	"	4		29.89	"	"	"	"	"	"	5	"	jib, F.T.M.S.S.
4	6	0	"	"	3		"	"	"	"	"	"	"	8	"	"
5	5	4	"	WSW	"		29.87	"	"	"	82	"	Cum Nimb	"	S	Topsails, T. G. sails,
6	5	4	"	"	"		29.89	"	82	80	"	"	Cir Cum	6	"	Royals courses, head sails.
7	6	0	"	"	"		29.88	"	"	"	"	"	"	"	"	"
8	6	2	"	"	4		29.90	"	"	"	"	"	"	7	"	"
9	6	2	"	SW	"		29.91	"	"	"	81	"	"	"	"	"
10	6	0	"	"	"		"	80	83	"	"	"	"	5	"	"
11	3	0	"	"	"		"	"	"	"	"	"	"	6	"	"
11	3	0	E 1/2 S	WSW	"		29.90	"	"	"	"	"	"	6	"	"
Noon	3	0	"	"	"		"	"	"	"	"	"	"	5	"	"

Distance run by Log since preceding Noon 131 knots 2 fathoms.

Latitude by D. R. at Noon 38 ° 44 ' 28 " N.

Longitude by D. R. at Noon 55 ° 00 ' 30 " W.

Latitude by Observations at Noon ⊙ 38 ° 55 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 54 ° 25 ' 00 " W.

Current during the time 1 knots 0 fms. per hour, setting to the N.E. by E. 3/4 E

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 18 ° 15 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2340 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 110 " 1190 "

P.M																
1	3	4	E by S 1/4 S	SW	4		29.89	82	84	80	81	Cir Cum	bc	8	S	Head sails, T. G. sails,
	3	0	E by S 1/2 S	"	"			"	"	"	"	"	"	7	"	Royals, Topsails, Courses
2	6	2	E by S 1/4 S	"	"		29.88	"	"	"	"	"	"	2	"	Spanker, G. Topsails.
3	6	0	"	"	"		"	"	83	"	"	"	"	3	"	"
4	4	6	"	"	3		"	"	"	"	"	"	"	3	"	"
5	5	0	ESE 3/4 E	"	"		"	80	"	"	80	"	"	4	"	"
6	4	4	"	"	"		29.87	"	82	"	"	"	"	5	"	"
7	3	6	"	"	2-3		29.88	"	"	79	"	"	"	6	"	Royals, T. G. sails T. sails
8	4	0	"	"	"		"	"	"	"	"	"	"	"	"	Foresail, jib.
9	3	6	"	WSW	2		29.89	"	"	78	"	"	"	8	"	"
10	3	0	"	W	"		"	"	"	"	"	"	"	"	"	"
11	3	0	"	"	"		29.90	"	"	"	"	"	"	9	"	"
Mid.	2	2	"	"	"		"	"	81	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley , U. S. Navy.
Friday August 24th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Bright moonlight. Moderate breeze from S. and W. Ship under single reefed topsails, T. G. sails, courses, jib and fore topmast stay sail.
(Signed) C. K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light. W.S.W. breeze. Cum. Nimb. clouds. Exchanged colors with an American whaling bark standing to S. and E. At 7.40 shook reefs out of topsails. At 7.45 crossed royal yards and set royals. At 8, set jib.
(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from S. and W. At 9.15 inspected at quarters. Exercised divisions at fire quarters. At 10.30 changed course to E. 1/2 S. At 12.27 changed course to E. by S. 1/4 S.
(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Moderate breeze from S.W. Long swell from S.W.
(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Moderate S.W. breeze. Ship under all plain sail to royals. At 6 took in spanker and gaff topsail.
(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Clear, partially cloudy. Warm. At 6.30 mustered at quarters. At 7.10 hauled up mainsail. At 7.40 hauled down fore topmast staysail and flying jib. Barometer steady.
(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from W. Barometer rising slowly.
(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct
(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			Leeway.	BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface						
A.M.																	
1	2	0	ESE 3/4 E	W	2		29.87	80	81	78	81	bc	Cir Cum	8	S	Jib, Foresail, Topsails,	
2	2	0	"	"	"		"	"	"	"	"	"	"	"	"	T. G. sails, Royals.	
3	2	0	"	"	"		29.86	"	"	"	"	"	"	"	"	"	
4	2	0	"	"	"		"	"	"	"	"	"	"	"	"	"	
5	1	4	"	"	"		"	"	82	79	"	"	"	9	"	"	
6	0	4	"	"	"		29.90	"	"	"	"	"	"	6	"	"	
7	0	4	"	N and W	1		"	"	"	"	"	"	"	4	"	"	
8	No steerage way			"	"		"	"	"	80	"	"	"	6	"	"	
9	0	6	SE	N and E	"		"	78	"	78	"	"	"	"	"	Fore royal, T. G. sails	
10	1	0	SSE	E	"		"	"	80	"	"	"	"	"	"	Topsails, Foresail jib,	
11	0	4	S by E 1/2 E	"	"		"	79	81	79	"	"	"	"	"	spanker	
Noon	0	4	"	"	"		"	"	"	80	"	"	"	"	"	"	

Distance run by Log since preceding Noon 65 knots 2 fathoms.

Latitude by D. R. at Noon 38 ° 54 ' 30 " N.

Longitude by D. R. at Noon 53 ° 02 ' 00 " W.

Latitude by Observations at Noon ☉ 39 ° 00 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 52 ° 43 ' 00 " W.

Current during the time knots 6 fms. per hour, setting to the E. 20° N.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 8 A.M. 22 ° 15 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours

Water remaining on hand fit for me at Noon 2110 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 110 " 915 "

P.M																	
1	2	0	SE by E	NE	2		29.90	79	82	78	81	bc	Cir Cum	7	S	Royals, T. G. sails,	
2	3	0	ESE	"	"		29.91	"	81	"	82	"	"	6	"	Topsails Foresail, single	
3	4	0	ESE 1/2 E	"	3		29.90	"	"	"	"	"	"	5	"	reefed M. sail, jib,	
4	5	0	"	"	"		29.89	"	"	"	"	"	"	"	"	Spanker.	
5	6	0	ESE	"	4-5		"	"	80	76	"	"	"	6	"		
6	6	4	SE 1/4 S	"	"		29.88	78	79	"	81	"	"	"	"	T. G. sails Topsails	
7	6	0	SE by E	"	"		29.89	"	"	"	"	"	"	"	"	Foresail, reefed M. sail.	
8	5	0	"	"	"		29.90	"	"	77	"	"	"	3	M	Jib, spanker.	
9	4	2	ESE 1/2 E	"	5-7		"	"	"	75	"	oq	Cir Cum Nimb	0	P	Close reefed topsails,	
10	4	0	SS by E 1/2 E	NE	6-8		29.89	"	77	73	"	bcql	"	1	"	Single reefed M. sail,	
11	4	0	SE 1/2 E	"	"		29.88	"	"	"	"	"	"	"	"	Foresail, F. T. M. S. S.	
Mid.	4	2	SE 3/4 E	"	"		29.90	"	"	"	80	"	"	"	"	Spanker.	

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Saturday August 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from W. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear, warm and pleasant. Light airs from N. and W. No steerage way on ship last hour.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Clear. Pleasant. Light E[aster]ly airs. Cir Cum clouds. At 8.20 set spanker. Furnished Herman Meyer (1.C.B.) James Hackett (2.C.B.) and Nicholas Lynch (2.C.B.) with specifications of charges against them for Summary Court Martial. At 10.45 took in and furled main royal, sent down royal yards, unbent the sail, rebent other royal and sent yard aloft. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N.E. increasing during watch. Barometer falling slowly.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Fresh breeze from N.E. at 5, took in royals and sent down royal yards. Wind freshening.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Cloudy and pleasant. Moderate breeze from N. and E. At 6.15 took single reef in topsail. Ship under single reefed topsails, top gallant sails, courses, jib and fore topmast staysail.

(Signed) C. K. Curtis
Lieut.

From 8 to Midnight. Cloudy. Cool. Pleasant. Moderate gale, with heavy squalls, from N. and E. At 8.30 took in and furled T. G. sails and hauled down jib. At 10.30 took close reef in topsails.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1	4	2	SE 1/2 E	NE	6-8	3/4	29.90	78	77	74	79	bc	Cum Nimb	2	M	Close reefed topsails,
2	4	0	SE 1/4 E	"	5-7	"	"	"	"	"	78	"	"	5	"	single reefed m. sail.
3	4	2	SE 3/4 E	"	"	1/2	29.88	"	"	"	"	ogp	"	0	"	foresail, spanker,
4	5	0	SE 1/2 E	"	"	"	29.87	"	"	"	"	"	"	"	"	F.T.M.S.S.
5	5	0	SE by E	"	"	3/4	"	75	"	73	"	og	"	"	R	"
6	4	4	"	"	"	"	29.89	"	75	"	81	"	"	"	"	"
7	4	0	SE by E 1/4 E	"	"	"	"	74	"	72	"	"	"	"	"	"
8	4	0	SE by E	"	6-8	"	29.91	"	"	"	"	"	"	"	"	"
9	3	0	"	"	6	"	"	75	"	"	82	"	"	"	"	Single reefed topsails,
10	3	4	"	"	"	"	29.93	"	76	"	81	bcq	Cir Cum	3	"	single reefed M. sail.
11	4	4	SE 1/2 E	"	"	"	29.91	"	77	"	"	"	"	"	"	foresail, F.T.M.S.S.
Noon	3	4	"	"	"	"	29.92	"	"	"	"	"	"	"	"	Spanker.

Distance run by Log since preceding Noon 103 knots 2fathoms.

Latitude by D. R. at Noon 38 ° 19 ' 00 " N.

Longitude by D. R. at Noon 50 ° 45 ' 00 " W.

Latitude by Observations at Noon ☉ 38 ° 08 ' 00 " N,

Longitude by Chronometer from Forenoon Observations ☉ 50 ° 38 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at ° " "

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1880 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 110 " 640 "

P,M																
1	4	6	SE by E	N and E	6-8	1	29.94	75	77	72	80	bcq	Cum Nimb	3	R	"
2	3	0	N 1/2 E	"	"	"	29.96	76	"	"	"	"	"	"	"	"
3	4	0	"	"	"	"	30.03	"	"	"	"	"	"	5	"	"
4	4	2	N by E	"	"	"	30.01	"	76	"	"	"	"	3	"	"
5	4	0	N 1/2 E	"	"	3/4	29.99	"	"	73	"	"	"	2	"	"
6	3	0	N	"	"	1/2	30.03	"	"	"	"	"	"	3	"	"
7	2	0	"	ENE	"	"	30.05	74	75	"	"	"	"	1	"	Close reefed topsails
8	3	0	N by E	"	"	"	30.06	"	"	"	79	"	"	"	"	foresail, F. T. M. S. S.
9	3	0	N 1/2 E	"	"	1	30.12	"	"	72	78	"	"	2	"	spanker.
10	3	0	N by E 1/2 E	E	5-7	"	30.10	76	"	"	"	"	"	"	"	"
11	3	4	N by E	"	"	"	30.14	"	"	"	77	"	"	1	"	"
Mid.	3	0	N 1/2 E	"	"	"	30.10	"	"	"	"	bqr	"	0	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Sunday August 26th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast, squally. Moderate gale from N.E. Obscured moonlight. Passing showers last two hours. Barometer falling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Overcast and cool. Squally. Moderate gale from N. and E. Barometer rising slowly. A reel with logline attached was dropped overboard and lost. Rolling and pitching moderately. Sea rough.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy and squally. Moderate gale from N.E. Barometer rising slowly. At 8.15, shook out third reef from topsails, and at 10, shook out second. Ship under single reefed topsails, foresail, single reefed mainsail, foretop mast staysail and spanker.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Partially cloudy. Cum. Nimb. clouds. Blowing moderate gale, with heavy squalls from N. and E. At 1.15 wore ship to N.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy, squally. Moderate gale from N. and E. Sea rough. Ship rolling and pitching heavily.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Cloudy and squally. Strong breeze from E.N.E. Rough sea. Close reefed the topsails. Moon rose at 7.30. Ship pitching moderately. Barometer rising slowly.

(Signed) J. K. Cogswell
Lieut.

From 8 to Midnight. Overcast and squally. Blowing fresh from E. Barometer rising slowly. Passing rain squalls last hour.

(Signed) C. K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour				WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.	Leeway.	Height in inches.	Ther. at f. d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface						
A.M.																	
1	3	0	N	N and E	6-9	1	30.16	75	74	73	80	bcq	Cum Nimb	2	R	Close reefed topsails,	
2	0	4	N by E	"	2-3	2	30.18	"	"	71	"	"	"	"	"	F.F.M.S.S. spanker.	
3	1	0	NNE	E	5-7	"	30.16	"	"	"	"	"	"	3	"	"	
4	1	0	N	"	4-7	"	30.14	"	"	72	"	"	"	"	"	"	
5	1	0	N by W	ENE	5-7	3	30.13	"	"	"	"	"	"	2	"	Close reefed topsail,	
6	0	6	N 3/4 N	"	4-7	"	30.15	"	"	"	"	"	"	3	"	single reefed M. sail.	
7	1	0	"	"	4-6	"	30.16	"	"	"	"	"	"	2	"	foresail, F. T. M. S. S. spanker.	
8	1	6	N	"	5-7	2	30.17	"	"	"	"	"	"	"	"	"	
9	1	4	N by E	ESE	2-5	3	30.20	73	"	"	"	"	"	1	"	F.T.M.S.S. single reefed	
10	2	0	NE by N	E	"	1 1/2	30.22	"	"	"	"	"	"	"	"	topsails, foresail, single	
11	2	0	NE	"	3-7	"	30.20	74	75	"	"	oq	"	0	"	reefed M. sail, spanker.	
Noon	2	4	"	"	"	"	"	"	"	"	"	"	"	"	"	"	

Distance run by Log since preceding Noon

58 knots

0 fathoms.

Latitude by D. R. at Noon

38 °

49 '

00 "

" N.

Longitude by D. R. at Noon

51 °

49 '

00 "

" W.

Latitude by Observations at Noon ☉

°

'

"

Longitude by Chronometer from Forenoon Observations ☉

51 °

19 '

30 "

" W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ☉ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ☉ observed at 8 A.M.

20 °

13 "

00 "

" W.

Water expended during the preceding 24 hours

230 gallons.

Water during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

1650 "

Coal consumed during the preceding 24 hours

tons

275

lbs.

Coal remaining on hand at Noon

110

"

365

"

P.M

1	4	4	N 1/2 W	E by N	3-6	1	30.20	74	75	72	79	oq	Cum Nimb	0	R	Single reefed topsails,
2	5	4	"	"	"	"	"	"	"	"	"	"	"	"	"	T.G. sails single reefed
3	6	4	N 1/4 W	"	"	"	"	"	"	"	"	"	"	"	"	M. sail, foresail, jib,
4	4	4	N by E 1/2 E	"	2-5	"	"	"	"	"	"	bcq	"	1	"	F.T.M.S.S. spanker,
5	5	2	N 1/2 E	"	3-6	1/2	30.22	"	76	"	80	"	"	3	"	gaff topsail.
6	5	2	"	"	3-5	"	30.20	"	"	"	"	"	"	2	"	"
7	4	0	S by E 1/2 E	E	"	"	30.21	"	75	71	"	"	"	4	"	"
8	5	2	S by E 3/4 E	"	"	"	30.23	"	"	"	"	"	"	6	"	"
9	1	4	South NE by E	SE	"	"	30.21	"	74	"	"	"	"	1	"	"
10	4	4	NE 1/2 N	ESE	"	"	30.18	"	"	"	"	"	"	"	"	"
11	6	0	NNE	E by S	"	"	"	"	"	"	"	"	"	2	"	"
Mid.	4	4	"	"	"	"	30.17	"	"	"	"	"	"	4	"	"

Longitude by Chronometer from Afternoon Observations ☉

°

'

"

Longitude by Chronometer Observations

*

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley
Monday August 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Obscured moonlight. Blowing moderate gale from N. and E. with heavy squalls first hour. Strong wind with squalls from E. remainder of watch. At 1.15 hauled up courses.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy, cool. Strong breeze with squalls from N. and E. Sea rough. At 7.35 set course. Barometer rising.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Overcast and cool. Moderate breeze from E. Squally. Sea rough. At 9.30 inspected at quarters. At 10, a Summary Court Martial convened for the trial of Herman Meyer (1.C.B.) Nicholas Lynch (2.C.B.) and James Hackett (2.C.B.) One sail in sight at end of watch. Long swell from N.E. Court Martial adjourned until 1 P.M.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and squally. Fresh breeze from E. At 12.15 set T. G. sails and at 1, set gaff topsails. Summary Court Martial met at 1. and at 2.30 adjourned to await action of revising power. At 2 exchanged colors with [space] brig steering to S. and E.

(Signed) C. K. Curtis
Lieut.

From 4 to 6 P.M. Cloudy, partially clear. Fresh E[aster]ly wind with squalls. Cum. Nimb. clouds.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Cloudy, cool. Fresh breeze with squalls from E. At 6, tacked ship. Barometer rising.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and squally with drizzling rain. Moderate breeze from S. and E. Clouds passing to N. and E. Bright moonlight latter part of watch. Long swell from E.S.E. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.				State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.			
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface.								
A.M.																			
1	5	0	NE by N 1/2 N	S and E	3-5	1/2	30.18	74	74	72	79	bc	Cir Cum	3	M				
2	4	0	NE by N	"	"	"	30.15	"	"	"	"	"	"	"	"				
3	2	0	"	"	2-4	"	"	"	"	"	"	"	"	2	"				
4	2	0	"	"	3	"	"	"	"	"	"	"	"	"	"				
5	2	4	NNE 1/2 E	E	"	"	30.18	"	"	"	78	"	"	5	"	All plain sail.			
6	3	0	"	"	"	"	30.20	"	"	"	77	"	"	4	"	with single reefed			
7	3	2	NE by N	"	"	"	"	"	"	"	"	"	"	"	"	Mainsail.			
8	3	6	NNE 1/2 E	"	"	"	"	"	"	"	75	"	"	"	"				
9	5	2	NE by N	E by S	"	"	30.19	"	"	"	"	"	"	2	"	All plain sail			
10	4	6	NNE 1/2 E	"	"	"	30.20	"	"	"	76	"	"	"	"	except royals, fly,			
11	3	4	NE 3/4 N	"	"	"	30.21	"	"	"	74	"	"	"	"	jib, single reefed			
Noon	3	0	"	ESE	"	"	30.20	"	"	"	73	"	"	"	"	Main sail.			
Distance run by Log since preceding Noon												99 knots		6 fathoms.					
Latitude by D. R. at Noon												40 °	02 '	30 "	" N.				
Longitude by D. R. at Noon												51 °	29 '	00 "	" W.				
Latitude by Observations at Noon ☉												39 °	53 '	00 "	" N.				
Longitude by Chronometer from Forenoon Observations ☉												50 °	51 '	30 "	" W.				
Current during the time				1	knots	fms. per hour, setting to the				E. 21° N.									
Variation of the Compass by Amplitude ☉ observed at Sunrise												°	"	"					
Variation of the Compass by Azimuth ☉ observed at 8 A.M.												22 °	40 "	00 "	" W.				
Water expended during the preceding 24 hours												230 gallons.							
Water				during the preceding 24 hours								"							
Water remaining on hand fit for me at Noon												1420 "							
Coal consumed during the preceding 24 hours												tons		275	lbs.				
Coal remaining on hand at Noon												110	"	90	"				
P.M.																			
1	3	0	NE 3/4 N	E by S	3	3/4	30.20	74	74	71	75	o	Cum Nimb	0	S	Jib, F.T.M.S.S. foresail			
2	3	4	S by E 1/2 E	"	"	1/2	30.18	"	"	70	"	"	"	"	"	Topsails, T. G. sails,			
3	3	4	"	"	"	"	30.16	"	"	"	"	"	"	"	"	spanker, single reefs			
4	4	0	"	"	"	"	"	"	"	"	"	"	"	"	"	Mainsail.			
5	5	4	SSE 3/4 E	"	2-4	"	30.13	"	"	71	76	oq	"	"	"				
6	6	0	SSE	"	"	"	30.10	"	"	"	"	"	"	"	"				
7	5	0	S by E 1/2 E	"	3-5	1/4	30.12	"	"	73	"	"	"	"	M	Double reefed topsails			
8	0	4	NE	Variable	0-1	0	30.14	75	"	"	"	o	"	"	"	course, spanker,			
9	No steerage way			Calm	0	"	30.13	"	75	"	78	"	"	"	"	F.T.M.S.S.			
10	"	"	"	"	"	"	30.12	"	"	"	"	op	"	"	"				
11	0	6	NE by E 3/4 E	S and E	3	"	30.11	"	"	"	"	o	"	"	"				
Mid.	1	4	NE by E 1/4 E	"	"	"	"	"	"	"	"	op	"	"	"				
Longitude by Chronometer from Afternoon Observations ☉												°	'	"					
Longitude by Chronometer Observations												*		°	'	"			
Variation of the Compass by Amplitude												observed at Sunset				°	'	"	
Variation of the Compass by												at				°	'	"	

under the command of Commander Winfield Scott Schley
Tuesday August 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Moderate breeze from S. and E. decreasing during last hour. Ship under single purpose topsails, T. G. sails, single reefed mainsail, foresail jib and spanker.

(Signed) C. K. Curtis
Lieut.

From 4 to 8 A.M. Partially cloudy. Mackerell sky. Light E[aster]ly breeze. At 7.25 shook reefs out of topsail. At 7.40 crossed royal yards and set royals. At 8 set gaff topsail and flying jib. At daylight sighted a sail astern.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, cool. Light E[aster]ly breeze. At 9.30 inspected at quarters. 1st and 2nd Divisions exercised at great guns. At 9.40 took in royals and flying jib. A sail in sight on starboard quarter.

(Signed) G. B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and cool. Moderate breeze from S. and E. Sea smooth. At 1, tacked ship. At 2.40 passed a Dutch bark and signaled by Commercial Code as follows. B.N.W. B.O.F. and B.P.L. She answered B.P.H.J. B.D.T.N. H.F.G. and H.F.P. She is bound for Falmouth Eng. from Point Galera 33 days out.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and squally. Fresh breeze from E. by S. At 5, sent down royal yards.

(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Overcast, squally first hour, wind from E. by S. Wind dying out and shifting to S. towards end of watch. At 6.20 took in and furled T. G. sails and stowed jib and gaff topsail. Took double reef in topsails. At 7.15 wore ship to N. and E. Barometer rising.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast, slight passing showers latter part. At 8.30 took in courses. At 10.45 set them again. Calm first two hours. Moderate breeze from S. and E. last two hours.

(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.				BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prog. of Clear Sky in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.	Force.	Lee-way.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface							
A,M																		
1	2	0	NE	ESE	3-4	1 1/2	30.05	74	74	72	76	ogp	Nimb	o	m	Jib F.T.M.S.S. foresails,		
2	3	6	NNE 1/2 E	"	"	1	30.07	"	"	"	"	bcp	Cum Nimb	1	"	double reefed topsails,		
3	4	4	"	"	"	"	"	"	"	"	"	bc	"	"	"	single reefed M. sails,		
4	5	4	NE by E	SE	5-7	"	30.50	"	"	71	"	"	"	"	"	spanker.		
5	4	0	NE by E 1/2 E	"	3-5	1/2	"	"	"	"	"	bcq	"	"	"			
6	3	0	NE by E	"	"	"	30.03	"	"	"	77	oq	"	0	"			
7	3	0	"	"	"	"	30.05	"	"	"	"	bcq	"	1	"			
8	3	4	NE by E 1/2 E	"	"	"	"	73	"	"	"	oq	"	"	"	Same except jib.		
9	4	0	NE by N	S & E	3-4	1/4	30.07	"	"	72	"	"	"	0	"	All plain sail to		
10	3	6	NE	E	"	"	30.06	"	"	73	"	"	"	"	"	T. G. sails, single		
11	3	4	NNE	"	"	"	"	"	"	"	"	"	"	"	"	reefed M. sail.		
Noon	4	0	N by E	ESE	"	"	30.05	"	"	"	"	ocq	"	3	"			
Distance run by Log since preceding Noon												77 knots		6 fathoms.				
Latitude by D. R. at Noon												40	°	19	'	30	"	N.
Longitude by D. R. at Noon												50	°	14	'	30	"	W.
Latitude by Observations at Noon ☉												40	°	23	'	00	"	N.
Longitude by Chronometer from Forenoon Observations ☉												50	°	13	'	00	"	W.
Current during the time												knots		fms. per hour, setting to the				
Variation of the Compass by Amplitude ☉ observed at Sunrise													°		"		"	
Variation of the Compass by Azimuth ☉ observed at													°		"		"	
Water expended during the preceding 24 hours												230 gallons.						
Water												during the preceding 24 hours						
Water remaining on hand fit for me at Noon														1200 "				
Coal consumed during the preceding 24 hours														tons	275	lbs.		
Coal remaining on hand at Noon												109	"	2055	"			
P,M																		
1	3	6	NE by N	ESE	3	1/4	30.05	74	75	74	80	bcp	Cum Nimb	2	M	Jib, F.T.M.S.S.		
2	3	4	NE 3/4 N	"	2	"	"	"	"	"	"	bc	"	3	"	foresail, T. G. sails.		
3	3	4	NE	"	2-3	"	30.04	"	"	"	"	"	"	4	"	spanker, single		
4	3	4	NNE	E	3	"	"	"	"	"	79	"	"	5	"	reefed M. sail.		
5	2	0	NNE 3/4 E	ESE	"	1/2	30.03	"	"	"	80	"	"	6	"			
6	4	0	NE 1/2 N	"	"	"	"	"	"	73	"	bcp	"	3	"			
7	3	0	NNE	"	2	"	30.05	"	"	"	"	"	"	2	"			
8	3	4	NE by 3/4 E	"	"	"	"	"	"	74	"	bc	"	4	"			
9	4	0	NNE 1/4 E	E	3	1/4	30.07	"	"	"	79	"	"	7	"	T. G. salis, single reefed		
10	2	0	S 1/2 E	"	2	"	"	"	"	73	"	"	"	6	"	topsail and M. sail,		
11	2	6	S 3/4 E	"	"	"	"	"	"	"	"	"	"	4	"	foresail, jib, F.T.M.S.S.		
Mid.	2	0	S	"	"	"	30.06	"	76	"	"	"	"	"	"	spanker.		
Longitude by Chronometer from Afternoon Observations ☉													°		'	"		
Longitude by Chronometer Observations												*			°		'	"
Variation of the Compass by Amplitude												observed at Sunset			°		'	"
Variation of the Compass by												at			°		'	"

under the command of Commander Winfield Scott Schley
Wednesday August 29th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Fresh breeze from S. and E. Squally, slight sprinkling of rain first part of watch. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Weather overcast and threatening. Wind fresh, with squalls from S.E. At 7.45 hauled down jib.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Cloud. Fresh E. breeze with squalls. Cum. Nimb. clouds. Light passing showers during latter part of watch. At 8.11 shook one reef out of topsails. At 8.25 set jib. At 8.30 set T. G. sails. At 8.55 hauled up mainsail and tautened reef earings, reset mainsail. At 9.15 inspected at quarters and inspected bags. At 9.35 set gaff topsail. At 9.40 shook other reef out of topsails. At 9.45 hauled up foresail and tautened head earings, reset foresail.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Passing showers first hour. Light breeze from from [sic] S. and E. Quarterly Board of Survey condemned a keg of butter as being bad, turned into slush fund by order of Commanding Officer. At 4, missed stays. Filled away on starboard tack.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Cloudy and pleasant. Gentle breeze from S. and E. Barometer steady. Long swell from S. E.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Partially overcast and pleasant. Light breeze from E.S.E. At 6.30 took single reef in the topsails.

(Signed) C. K. Curtis
Lieut.

From 8 to Midnight. Cloudy, partially clear, with passing showers. Light E. breeze first part of watch. At 9, wore ship to S. Lunar rainbow visible between 9 and 10. At 12, wore ship to N and E.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.		
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface							
A.M																		
1	2	4	NE by E	S and E	3	1/4	30.05	75	75	72	78	bc	Cum Nimb	2	S	Single reefed topsails,		
2	1	6	NE	"	2	0	"	"	"	75	"	"	"	6	"	Mainsail, foresail,		
3	1	4	NE by E 1/4 E	"	"		30.04	"	"	"	"	"	"	"	"	T. G. sails, F.T.M.S.S.		
4	1	6	ENE 1/4 E	"	"		"	"	"	"	"	"	"	4	"	and spanker.		
5	2	0	ENE 1/2 E	SE by S	"	3/4	30.08	74	"	74	"	"	"	"	"	"		
6		4	E	S by E	"	1	30.07	"	"	"	"	"	"	1	"	"		
7	No steerage way			Calm	0	0	"	"	"	"	"	"	"	"	"	"		
8	1	4	ESE 1/4 E	SW	1-2		"	"	74	"	"	bcp	"	0	"	"		
9	No steerage way				0		"	"	"	"	76	op	"	"	"	"		
10	"	"	"	"	"		30.08	"	"	"	"	or	"	"	"	"		
11	"	"	"	"	"		"	"	"	"	"	o	"	"	"	"		
Noon	1	0	NE by N	ESE	1-2	0	"	"	"	"	"	b	"	1	"	"		
Distance run by Log since preceding Noon												50 knots		0 fathoms.				
Latitude by D. R. at Noon												40	°	56	'	00	"	N.
Longitude by D. R. at Noon												49	°	55	'	00	"	W.
Latitude by Observations at Noon ⊙												41	°	11	'	00	"	N.
Longitude by Chronometer from Forenoon Observations ⊙												49	°	54	'	00	"	W.
Current during the time												knots	5	fms. per hour, setting to the	N			
Variation of the Compass by Amplitude ⊙ observed at Sunrise													°		"		"	
Variation of the Compass by Azimuth ⊙ observed at													°		"		"	
Water expended during the preceding 24 hours												230 gallons.						
Water during the preceding 24 hours																		
Water remaining on hand fit for me at Noon												970					"	
Coal consumed during the preceding 24 hours												1	tons	1275	lbs.			
Coal remaining on hand at Noon												108	"	780	"			
P.M																		
1	No steerage way				0		30.08	72	74	74	76	or	Cum Nimb	0	S			
2	"	"	"		"		"	74	73	73	"	bc	"	1	"			
3	0	4	SE by E 1/4 E	ENE	0-1		"	"	"	"	"	bcm	"	2	"			
4	No steerage way				0		"	"	"	"	"	bc	"	"	"			
5	3	0	SE by E 1/2 E	W	3		"	"	75	"	"	"	"	"	"	All plain sail except		
6	2	4	"		2		"	"	"	"	"	"	"	3	"	mainsail and spanker		
7	No steerage way			Calm	0		30.07	"	"	"	"	"	"	6	"	Same with		
8	2	0	SE by E 1/2 E	SSW	3		30.06	"	"	"	"	"	"	7	"	M. trysail		
9	3	4	"	"	"		30.10	74	76	"	"	"	"	"	"	"		
10	4	0	"	"	"		"	"	"	"	"	"	"	"	"	"		
11	4	0	"	"	3-4		"	"	77	"	"	"	"	"	"	"		
Mid.	5	0	SE by E 3/4 E	S by W	4		"	"	"	"	"	"	"	"	"	"		
Longitude by Chronometer from Afternoon Observations ⊙													°	'	"			
Longitude by Chronometer Observations												*		°	'	"		
Variation of the Compass by Amplitude												observed at Sunset		°	'	"		
Variation of the Compass by												at		°	'	"		

under the command of Commander Winfield Scott Schley
Thursday August 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool. Light breeze from S. and E. Barometer falling slowly.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Rainy. Light airs from S. and E. first part of watch, followed by calm. At 7, a light breeze sprung up from S. and W. Squared away. At 7.15 changed course to ESE 1/4 E. Shook reefs out of topsails at 7.30. Long swell from S.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast and foggy with drizzling rain during first part, partially clear during latter part. Calm and light variable airs. At 8.30 crossed royal yards and set royals. At 9, sent down main royal yard and unbent sail for repairs, crossed the yard and set the sail at 11.30. At 12, started fires in boilers Nos. 1 and 2.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Overcast. Rainy. Misty. Cum. Nimb. clouds. Light E[aster]ly airs. Threw overboard 400 lbs bread condemned by Quarterly Board of Survey. At 1.30 wore ship to S. and E. Set foresail, main trysail and gaff topsail. At 3.25 started distiller. At 3.30 brailed up main trysail. At 3.35 brailed up spanker and hauled down gaff topsail. At 3.55 set spanker and braced around on starboard tack. Fires banked in two boilers. Average steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy. Pleasant. Light breeze from W. At 4.20 set flying jib. At 5.40 took in gaff topsail, spanker and main trysail. Fires banked in two boilers. Average steam pressure 25 lbs. Distilling. Sighted steamer standing to S. and W.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Calm first hour, light breeze from S. and W. last hour of watch. Passed steamer standing to S. and W. Banked fires in two boilers. Average steam 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Bright moonlight. Moderate breeze from S.S.W. increasing during last hour.

(Signed) C. K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	5	2	ESE 1/4 E	S	4	0	30.10	77	76	73	75	bc	Cir Cum	8	S	Main trysail, gaff topsail
2	5	0	SE by E 1/2 E	"	"	"	30.09	75	74	72	73	"	"	"	"	and plain sail except
3	5	4	"	"	"	"	30.08	"	"	"	"	"	"	"	"	Mainsail.
4	5	4	"	"	"	"	"	"	"	"	75	"	"	"	"	"
5	5	6	"	S by W	"	"	30.09	"	73	"	"	"	"	"	"	"
6	5	4	"	"	"	"	30.10	"	"	"	71	"	"	9	"	"
7	5	0	"	"	3	"	"	74	"	"	70	"	"	"	"	"
8	4	6	"	"	"	"	30.09	"	"	"	68	"	"	"	"	"
9	4	4	"	"	4	1/4	30.07	72	"	"	"	"	"	"	"	"
10	4	4	"	"	"	"	"	"	"	"	70	"	"	"	"	"
11	6	0	"	"	5	"	"	"	"	"	"	"	"	"	"	"
Noon	5	4	"	"	"	"	30.08	"	"	"	"	"	"	"	"	"

Distance run by Log since preceding Noon 87 knots 2 fathoms.

Latitude by D. R. at Noon 40 ° 59 ' 00 " N.

Longitude by D. R. at Noon 47 ° 58 ' 00 " W.

Latitude by Observations at Noon ☉ 41 ° 12 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 47 ° 19 ' 00 " W.

Current during the time 1 knots 2 fms. per hour, setting to the E.N.E.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 8 A. M. 22 ° 28 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 700 "

Water remaining on hand fit for me at Noon 1400 "

Coal consumed during the preceding 24 hours 1 tons 1875 lbs.

Coal remaining on hand at Noon 106 " 1145 "

P.M																
1	7	0	SE by E	S by W	4	1/4	30.08	75	75	72	75	bc	Cir Cum	9	S	
2	6	0	"	"	"	"	"	76	73	"	"	"	"	"	"	
3	6	0	"	"	"	"	30.07	"	"	"	"	"	"	"	"	
4	5	6	"	"	"	"	"	"	"	"	"	"	"	"	"	
5	5	4	"	SSW	3	0	"	"	"	"	"	"	"	8	"	Main topmast stay sail
6	5	2	"	"	"	"	30.06	"	"	"	76	"	"	5	"	M. try sail and all
7	4	6	"	SW	"	"	30.07	"	"	74	78	"	"	4	"	plain sail except
8	4	6	"	"	"	"	30.08	"	"	"	"	"	"	7	"	mainsail.
9	5	6	"	SSW	4	1/4	30.07	74	"	"	"	"	"	9	"	"
10	5	4	"	"	"	"	30.08	"	"	"	"	bcl	"	"	"	"
11	4	4	"	"	"	"	30.05	"	"	"	"	"	"	8	"	"
Mid.	5	0	"	"	"	"	30.03	"	"	"	"	"	Cum Nimb	7	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Friday August 31st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Bright moonlight. Moderate S[outher]ly breeze. Cir. Cum. clouds. At 3, sighted a full rigged brig standing to W showing no side lights. Fires banked in two boilers. Average steam pressure 25 lbs. Distilling. At 1.10 set gaff topsail.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear, cool and pleasant. Moderate breeze from S. At 4.45 sighted a sail on starboard beam. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from S. and W. Sea smooth. At 9.30 inspected at quarters, afterwards exercised at fire quarters, time of casting loose as follows. Marine Guard 1 m. 30 s. Navigators Div, 1 m. 15 s. 1st Div, 1 m. 35 s. Engineer Div, 1 m. 45 s. 2nd Div, 1 m. 50 s. Powder Div, 1 m. 55 s. Secured in 1 m. 15 s. Clewed up royals and T. G. sails and set up royal and T. G. backstays. At 12, changed course to S.E. by E. Unbent fore trysail and stowed it below. Broke out M. T. M. S. sail. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from S. by W. At 2.30 set up main topmast staysail stay and tied the sail hauled down immediately after. At 3.45 set main topmast staysail. Fires banked in two boilers. Distilling. Average steam 30 lbs.

(Signed) C. K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Light S[outher]ly breeze. Cir. Cum. clouds. Mackerel sky. Fires banked in two boilers. Average pressure 25 lbs. Distilling. Barometer falling slowly.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light S.W[ester]ly breeze. Fires banked in two boilers. Pressure 25 lbs. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Moderate breeze from S. and W. Moon rose at 10. Bright moonlight. Banked fires in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	5	4	SE by E	SSW	3	1/4	30.03	77	76	74	76	bc	Cir Cum	5	S	M.T.M. staysail, M. trysail
2	6	0	"	"	"	"	"	"	"	"	"	"	"	7	"	all plain sail except
3	6	0	"	"	"	"	"	"	"	"	"	"	"	"	"	main sail.
4	7	0	"	"	4	"	"	"	"	"	"	"	"	"	"	"
5	6	4	"	"	"	"	30.02	76	"	"	"	"	"	"	"	"
6	6	4	"	"	"	"	"	"	75	"	"	"	"	"	"	"
7	6	4	"	"	"	"	30.03	"	"	"	"	"	"	"	"	"
8	6	6	"	"	"	"	30.05	"	"	"	"	"	"	"	"	"
9	7	2	"	"	"	"	"	"	77	"	"	"	"	4	"	Plain sail to T. G. sail
10	6	6	"	SW	"	"	"	"	"	76	"	"	"	"	"	except main sail.
11	5	6	"	"	"	"	"	"	"	"	77	"	"	2	"	"
Noon	4	0	"	"	"	"	30.07	"	"	"	"	bcr	"	1	"	"

Distance run by Log since preceding Noon

140 knots

2 fathoms.

Latitude by D. R. at Noon

40 ° 45 ' 00 " N.

Longitude by D. R. at Noon

44 ° 17 ' 00 " W.

Latitude by Observations at Noon ⊙

° ' "

Longitude by Chronometer from Forenoon Observations ⊙

44 ° 15 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise

° ' "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M.

27 ° 08 ' 00 " W.

Water expended during the preceding 24 hours

230 gallons.

Water Condensed during the preceding 24 hours

750 "

Water remaining on hand fit for me at Noon

1920 "

Coal consumed during the preceding 24 hours

1 tons 2115 lbs.

Coal remaining on hand at Noon

104 " 1270 "

P.M

1	2	0	SE by E	NW by W	0-1	30.07	75	76	75	76	bcr	Cum Nimb	1	S	Plain sail except M.
2	5	2	"	SSW	3-4	30.06	74	74	"	"	"	"	"	"	With M.T.M.S.S. and
3	1	4	SE 1/2 E	"	3	30.03	"	"	"	"	bc	"	3	"	M. trysail.
4	3	0	"	"	"	"	"	"	"	"	"	"	8	"	"
5	3	0	"	S and W	2	30.07	76	75	"	"	"	Cir Cum	"	"	"
6	2	0	"	"	0-1	"	"	"	"	74	"	"	5	"	"
7	1	4	"	"	"	30.08	"	"	"	"	"	"	7	"	Plain sail except
8	1	2	"	N and W	"	30.11	"	"	"	"	"	"	"	"	M. sail, spanker
9	1	0	"	"	"	"	"	"	74	73	"	"	9	"	gaff topsail.
10	No steerage way			"	"	"	"	74	"	"	"	"	"	"	All plain sail
11	"	"	"	Calm	0	"	74	"	73	"	"	Cum Nimb	8	"	except M. sail and
Mid.	0	4	SE 1/2 E	N and E	0-1	30.10	"	"	"	"	"	"	4	"	flying jib.

Longitude by Chronometer from Afternoon Observations ⊙

° ' "

Longitude by Chronometer Observations

*

° ' "

Variation of the Compass by Amplitude

observed at Sunset

° ' "

Variation of the Compass by

at

° ' "

under the command of Commander Winfield Scott Schley
Saturday September 1st, 1877.

, U. S. Navy.

[Editor's note: The following note was attached to the logbook entry for September 1st, 1877.]

By order of Commanding Officer, the following changes were made in the ratings of the apprentices onboard this vessel. Viz.

Pat. Punch from O.S.2.C. to O.S. from Aug. 12th 1877.

J. R. Duncan from 1.C.B. to O.S.2.C. Sept. 1st 1877.

John Delmore	"	"	"	"	"	"
James B. Stanley	"	"	"	"	"	"
Edward Moran	"	"	"	"	"	"
Herman Meyer	"	"	"	"	"	"
A. T. Leigh	"	"	"	"	"	"
James V. Maion	"	"	"	"	"	"
Frank L. Handly	"	"	"	"	"	"
John Hall	"	"	"	"	"	"
Frank Tilghman	"	"	"	"	"	"
Wm. Hayden	"	2.C.B.	"	"	"	"
Wm. Hardin	"	"	"	"	"	"
Frank Hunter	"	"	"	"	"	"
Anthony McFadden	"	"	"	"	"	"
James Hackett	"	"	"	"	"	"
John Kallumback	"	"	"	"	"	"
Nicholas Lynch	"	"	"	"	"	"
Thomas G. Roberts	"	"	"	"	"	"
George H. Kahn	"	"	"	"	"	"

under the command of Commander Winfield Scott Schley
Saturday September 1st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from S.S.W. Lightening around northern horizon. Fires banked in two boilers. Average steam 25 lbs.

(Signed) C. K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light S.S.W. breeze. Cir. Cum. clouds. Barometer rising slowly. Fires banked in two boilers. Average pressure 25 lbs. Distilling. By order of Comdg. Officer, gave extra duty as follows. Viz. John W. Grun (Lds) and Mich. J. King (Lds) one hour each. John Millmore (O.S.2.C.) and Thos. G. Roberts (1.C.B.) four hours each.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Cloudy, cool. Moderate breeze from S. and W. Sprinkling rain last hour. At 10, took in fore royal and hauled down flying jib. Set up fore royal and flying jib stay. At 11.30 set fore royal and flying jib. At 11, took in main topmast stay sail and gaff topsail. At 11.55 took in royals.

(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Rainy. Light breeze from S. and W. At 2.30 changed course to S.E. 1/2 E. At 3, set royals and flying jib. At 3.30 called all hands to muster and read findings and sentences of Summary Court Martial in following cases. Herman Meyer (1.C.B.) charged with disrespect and insolence to superior officer. James Hackett (2.C.B.) and Nicholas Lynch (2.C.B.) charged with desertion. The above were found guilty and sentenced to 30 days solitary confinement on bread and water, full ration every fifth day and three months extra police duty. Findings and sentence were approved by Commanding Officer, but Medical Officer stating that the confinement would be injurious to their health, the sentence was commuted to 30 days simple confinement, bread and water every fourth day and three months extra police. The above was confined in accordance with sentence. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light airs from S. and W. At 5.45 took in main trysail and spanker.

(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from S. and W. shifting to N. and W. at end of watch. At 7.10 hauled down and stowed M.T.M.S. Sail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light variable airs and calm. At 10, hauled down flying jib. At 11.30 set spanker and main trysail. Moon rose at 11.15. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) C. B. T. Moon, Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.				BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface						
A.M																	
1	6	0	SE 1/2 E	NE	4	0	30.11	74	73	72	74	bc	Cum Nimb	6	S	All plane sail	
2	7	0	"	"	5	"	"	"	"	"	"	"	"	3	"	except M.sail with	
3	7	0	"	"	"	1/4	"	"	"	"	"	"	"	1	"	try sail.	
4	7	2	"	"	"	"	"	"	"	"	"	bcq	"	3	"	"	
5	6	4	"	"	4	"	30.12	"	74	"	"	bc	"	1	"	"	
6	3	4	"	"	2	"	"	"	"	73	"	"	"	4	"	"	
7	2	0	SSE 1/2 E	NNE	1-2	"	30.13	75	"	"	75	"	Cir Cum	6	"	"	
8	2	0	SE by S	"	"	"	30.15	"	"	"	"	"	"	8	"	Same with M.T.M.S.S.	
9	2	6	SE 1/2 E	"	3	"	30.17	"	76	74	"	"	"	"	"	"	
10	3	6	"	"	"	"	30.18	"	"	"	"	"	"	6	"	M. try sail and all	
11	4	0	"	"	"	"	"	"	"	76	"	"	"	8	"	plane [plain] sail except	
Noon	3	0	"	"	"	"	30.17	"	77	77	"	"	"	"	"	m. sail.	

Distance run by Log since preceding Noon

77 knots

2 fathoms.

Latitude by D. R. at Noon

40 ° 25 ' 00 " N.

Longitude by D. R. at Noon

42 ° 40 ' 00 " W.

Latitude by Observations at Noon ⊙

40 ° 42 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ⊙

42 ° 54 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise

° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M.

27 ° 23 " 00 " W.

Water expended during the preceding 24 hours

230 gallons.

Water Condensed during the preceding 24 hours

950 "

Water remaining on hand fit for me at Noon

2640 "

Coal consumed during the preceding 24 hours

1 tons 295 lbs.

Coal remaining on hand at Noon

103 " 975 "

P.M

1	0	6	SE 1/2 E	NNE	2		30.16	75	77	75	76	bc	Cir Cum	8	S	All plane [plain] sail
2	2	4	SE	NE	"	"	"	76	"	"	"	"	"	7	"	and M.T.M.S.S.
3	3	0	"	NE by E	3	"	"	"	"	"	"	"	"	4	"	"
4	4	4	"	ENE	"	"	"	"	"	"	"	"	"	"	"	"
5	4	4	"	"	"	"	30.18	"	76	74	"	"	"	5	"	"
6	5	4	"	"	"	"	30.20	"	"	"	75	"	"	8	"	"
7	4	0	"	"	1-2	"	"	"	"	"	"	"	"	"	"	"
8	3	2	"	"	"	"	"	"	"	"	"	"	"	"	"	"
9	4	0	"	N	3	"	30.21	77	75	73	"	"	"	"	"	All plane [plain] sail
10	4	2	"	"	"	"	30.22	"	"	"	74	"	"	"	"	except courses and
11	3	0	"	"	0-1	"	"	"	"	"	"	"	Cum Nimb	"	"	spanker, gaff topsail.
Mid.	0	4	"	"	0	"	30.21	"	74	72	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙

° ' "

Longitude by Chronometer Observations

* ° ' "

Variation of the Compass by Amplitude

observed at Sunset ° ' "

Variation of the Compass by

at ° ' "

under the command of Commander Winfield Scott Schley
Sunday September 2nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and pleasant. Moderate breeze from N.E. fresh in squall. Bright moonlight. Banked fires in two boilers. Steam pressure 25 lbs Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy first hour, clear and pleasant latter part. Wind moderate from N. and E, dying away to very light breeze. At 7.30 set main topmast staysail. Barometer rising slowly.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Clear and pleasant. Light N.N.E. breeze. Cir. Cum. clouds. At 9.30 Commanding Officer inspected ship and crew at quarters. Read articles for better government of the Navy. Read prayers and mustered crew. Fires banked in two boilers. Average steam 25 lbs. Distilling. Sighted a sail standing to S. and E.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and E. At 12.15 changed course to S.E. At 2, hauled fires in two boilers. At 2.15 set mainsail. At 3.10 took in main trysail.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from E.N.E. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light airs from E.N.E. Barometer steady.

(Signed) C. K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Light airs from N. dying out towards end of watch. Cum. Nimb. clouds. Bright starlight. At 11.15 took in spanker, gaff topsail and main topmast stay sail. At 11.55 hauled up courses. By order of Commanding Officer John W. Grun (Lds) T. G. Roberts (1.C.B.) and John Millmore (O.S.2.C) stood four hours extra duty.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1	0	4	SE	N and E	0-1	30.22	74	74	73	74	bc	Cum	9	S	All plane[plain] sail
2	No steerage way			Calm	0	30.21	75	"	"	73	"	"	"	"	except course,
3	0	4	SE	"	0	"	"	"	"	"	"	Cir Cum	6	"	spanker & gaff topsail.
4	0	4	"	N	0-1	30.20	"	"	"	"	"	Cum	9	"	"
5	0	6	"	"	"	30.22	"	"	"	"	"	Cum Str	"	"	"
6	1	2	"	N and E	"	30.23	74	"	"	"	"	"	"	"	Same with course
7	0	4	"	"	"	30.22	"	"	74	"	"	"	7	"	and spanker.
8	0	2	"	"	"	"	"	"	"	"	"	Cir Cum	6	"	"
9	1	0	"	"	"	30.23	"	"	"	"	"	"	"	"	"
10	0	4	"	"	"	"	"	"	"	"	"	"	"	"	Same except courses
11	No steerage way					30.25	"	76	75	74	"	Cum	7	"	"
Noon	"	"	"	"	"	"	75	"	"	"	"	"	8	"	"

Distance run by Log since preceding Noon 47 knots 6 fathoms.

Latitude by D. R. at Noon 40 ° 25 ' 00 " N.

Longitude by D. R. at Noon 41 ° 56 ' 00 " W.

Latitude by Observations at Noon ⊙ 39 ° 53 ' 30 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 42 ° 04 ' 00 " W.

Current during the time 1 knots 2 fms. per hour, setting to the S. by W.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 27 ° 00 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2410 "

Coal consumed during the preceding 24 hours tons 755 lbs.

Coal remaining on hand at Noon 103 " 220 "

P.M															
1	No Steerage Way					30.23	74	76	76	74	bc	Cum	8	S	All plane[plain] sail
2	"	"	"	"	"	"	75	78	77	"	"	"	6	"	except courses and
3	"	"	"	"	"	"	76	80	79	"	"	Cir Cum	7	"	gaff topsail.
4	"	"	"	"	"	"	"	81	80	"	"	Cum	"	"	"
5	"	"	"	"	"	"	77	80	78	80	"	"	"	"	"
6	"	"	"	"	"	"	"	79	"	77	"	"	"	"	"
7	"	"	"	"	"	30.26	"	78	76	76	"	"	9	"	"
8	"	"	"	"	"	30.27	"	"	"	"	"	"	"	"	"
9	"	"	"	"	"	"	78	77	75	"	"	"	"	"	"
10	"	"	"	"	"	30.29	"	"	"	"	"	"	7	"	"
11	"	"	"	"	"	30.27	"	"	"	"	"	"	5	"	"
Mid.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations *

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Monday September 3rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Calm and light airs from N. and E. Heavy dew. Bright moonlight.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. and E. A bark in sight on port quarter. Long swell from N. and E. At 5 set course and spanker.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light airs from N. and E. first part, last part calm. At 9.30 inspected at quarters. Exercised at general quarters. Barometer rising slowly.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Calm. Cumulus clouds. At 12.30 hauled down main topmast staysail. Two sail in sight at end of watch.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear. Warm. Calm. No steerage way. Barometer steady.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. No steerage way. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Calm up to last half hour. At 11.30 light breeze sprung up from S. and E. Wore ship to N. and E, set spanker.

(Signed) C. K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	4	E 3/4 N	SSE	1		30.27	78	76	74	74	bc	Cum	9	S	All plane [plain] sail
2	1	0	E by N	"	"		"	"	75	"	"	"	"	"	"	except courses and
3	1	0	"	"	"		"	"	"	"	"	"	Cir Cum	8	"	gaff topsail.
4	1	0	ENE 1/2 E	"	"		"	77	"	"	"	"	"	9	"	"
5	1	0	E BY N	"	"		30.28	"	"	"	"	"	"	"	"	Same with M.T.M.S.S.
6	1	0	"	"	"		"	"	"	75	"	"	"	"	"	"
7	0	4	ENE	"	"		"	76	76	"	"	"	"	"	"	"
8	0	4	"	SE	"		30.29	"	"	"	"	"	"	"	"	"
9	0	6	"	"	"		30.28	"	"	"	"	"	"	"	"	Same with gaff
10	1	0	ENE 1/2 E	"	"		30.31	"	79	76	76	"	"	"	"	topsail.
11	0	4	E by N	SSE	"		"	77	"	"	"	"	"	"	"	"
Noon	1	0	ENE 1/2 E	"	"		"	"	80	77	"	"	"	"	"	"

Distance run by Log since preceding Noon

10 knots

6 fathoms.

Latitude by D. R. at Noon

40 °

00 '

00 "

" N.

Longitude by D. R. at Noon

41 °

53 '

00 "

" W.

Latitude by Observations at Noon ⊙

40 °

01 '

40 "

" N.

Longitude by Chronometer from Forenoon Observations ⊙

41 °

24 '

15 "

" W.

Current during the time 1 knots fms. per hour, setting to the E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise

°

"

"

Variation of the Compass by Azimuth ⊙ observed at 8 A.M.

23 °

30 "

00 "

" W.

Water expended during the preceding 24 hours

230 gallons.

Water

during the preceding 24 hours

"

Water remaining on hand fit for me at Noon

2180

"

Coal consumed during the preceding 24 hours

tons

275

lbs.

Coal remaining on hand at Noon

102

"

2185

"

P.M

1	1	0	E by N	S and E	1		30.32	77	79	77	76	bc	Cir Cum	9	S	Same.
2	1	0	"	"	"		"	"	80	"	"	"	Cum	"	"	"
3	1	0	ENE 1/2 E	"	"		30.30	"	78	"	"	"	"	"	"	"
4	1	0	ENE	"	"		"	76	"	"	"	"	"	"	"	"
5	0	6	E 1/2 N	"	"		30.31	"	77	76	75	"	"	"	"	"
6			E by N	"	"		"	"	76	"	"	"	"	"	"	"
7	0	4	ENE 1/2 E	"	"		"	75	"	"	"	"	"	"	"	"
8	0	6	"	"	"		30.33	76	"	"	"	"	"	"	"	"
9	1	0	E by N	"	"		30.35	"	"	74	74	"	"	"	"	"
10	1	0	E 1/2 S	"	"		"	"	75	"	"	"	"	"	"	"
11	1	0	"	"	"		30.36	78	"	73	"	"	"	"	"	"
Mid.	0	6	"	"	"		"	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙

°

'

"

Longitude by Chronometer Observations

*

°

'

"

Variation of the Compass by Amplitude

observed at Sunset

°

'

"

Variation of the Compass by

at

°

'

"

under the command of Commander Winfield Scott Schley
Tuesday September 4th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Pleasant. Cir. Cum. clouds. Light airs from S. and E. Moon rose at 1.22. By order of Commanding Officer, Cornelius Robinson (Lds) stood four hours extra watch. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and E. Exchanged colors with an Italian bark found to N. and E. At 7.40 set courses and main topmast stay sail.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Clear and warm. Light airs from S. and E. Italian bark on port beam. At 9.15 inspected and instructed crew at quarters. Exchanged signals, Commercial Code, with Italian bark bound to Gibraltar.

(Signed) J. K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from S. and E. Barometer falling slowly. Two sail in sight at end of watch.

(Signed) C. K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Warm. Light airs from S. and E. Sighted standing to N. and E. Several sail in sight at end of watch. Italian barque on port bow. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from S. and E. Barometer rising.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. and E. Barometer steady. Bright starlight.

(Signed) James K. Cogswell.
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	0	E 1/2 S	S	0-1		30.33	78	76	74	74	bc	Cum	7	S	All plane [plain] sail
2			No steerage way	Calm	0		"	"	"	"	"	"	"	"	"	and main top-
3	"	"	"	"	"		"	"	"	"	"	"	"	"	"	mast stay sail.
4	"	"	"	"	"		30.34	"	"	75	"	"	"	8	"	"
5	"	"	"	"	"		30.35	"	"	"	"	"	"	"	"	"
6	"	"	"	"	"		30.36	"	"	"	"	"	"	9	"	"
7	"	"	"	"	"		30.37	"	"	"	"	"	Cir Cum	"	"	"
8	"	"	"	"	"		"	"	"	76	"	"	"	8	"	"
9	0	6	NE by E 1/2 E	S and E	0-1		"	"	"	"	"	"	"	"	"	"
10	1	0	ENE 1/2 E	"	"		30.28	"	78	78	"	"	"	"	"	"
11	0	4	ENE	"	"		"	"	79	"	"	"	"	"	"	"
Noon	0	4	"	"	"		"	"	80	"	76	"	"	"	"	"

Distance run by Log since preceding Noon 13 knots 4 fathoms.

Latitude by D. R. at Noon 40 ° 09 ' 00 " N.

Longitude by D. R. at Noon 41 ° 10 ' 00 " W.

Latitude by Observations at Noon ⊙ 40 ° 25 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 41 ° 10 ' 00 " W.

Current during the time 0 knots 6 fms. per hour, setting to the N.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at At 8 A.M. 24 ° 00 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1950 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 102 " 1910 "

P.M																
1	No Steerage Way		Calm	0			30.36	78	80	78	78	bc	Cir Cum	7	S	All plane sail
2	"	"	"	"	"		"	"	"	"	"	"	"	"	"	with M.T.M.S.S.
3	"	"	"	"	"		"	"	79	"	"	"	"	"	"	and gaff topsail.
4	"	"	"	"	"		"	"	"	"	"	"	"	"	"	"
5	"	"	"	"	"		30.37	"	"	77	"	"	"	"	"	"
6	"	"	"	"	"		"	"	78	"	"	"	"	5	"	"
7	"	"	"	"	"		"	"	"	"	"	"	Cum Nimb	"	"	"
8	"	"	"	"	"		30.39	"	"	76	"	"	"	4	"	"
9	0	4	E	S and E	0-1		30.40	"	77	"	"	bcp	"	3	"	"
10	1	0	ne by e 1/2 e	"	0-2		30.39	"	"	"	"	"	"	4	"	"
11	0	6	ene 1/4 e	"	0-1		30.38	"	"	75	"	bc	"	6	"	"
Mid.	0	6	E by N	"	"		30.37	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Wednesday September 5th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, light airs from S. Calm during last three hours.
Barometer steady. Moon rose at 3.00.

(Signed) C. K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Calm. Light airs springing up from S. and E. at end of watch.
Cir.Cum. clouds. At 7.40 clewed up main topmast stay sail and set up stay, reset the sail.
Several sail in sight at end of watch.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and warm. Light airs from S. and E. At 9.15 inspected at quarters.
Exercised companies at infantry. Exchanged colors with an Austrian brigantine bound from
Martinique to Havre. Three sail in sight at end of watch.

(Signed) C. B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Calm. Three sail in sight at end of watch. Barometer
steady.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Calm. Barometer steady. Two sail in sight at end of watch.

(Signed) C. K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy, partially clear. Cum. Nimb. clouds. Light sprinkling of rain. Light
variable airs. At 6.20 taken aback, tacked ship, hauled up courses. At 6.40 taken aback, braced
around. Several sail in sight at dusk.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy, with passing shower first two hours. Pleasant remainder of watch.
Light airs from S. and E. Barometer falling slowly.

(Signed) C. B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	0	ESE 1/2 E	SSW	1		30.36	77	76	73	75	bc	Cum	8	S	All plane [plain] sail
2	1	0	SE by E	"	"		"	"	"	"	"	"	"	"	"	with main topmast
3	1	0	SE 1/2 E	"	"		"	"	"	"	"	"	"	9	"	stay sail and gaff
4	1	0	SE	"	"		"	"	"	"	"	"	"	"	"	topsail.
5	0	4	"	S and E	0-1		"	"	77	"	"	"	"	"	"	"
6	1	0	"	"	"		30.33	75	"	74	"	"	"	"	"	"
7	1	0	"	"	"		"	"	"	"	76	"	"	"	"	"
8	1	0	"	"	"		"	"	78	"	"	"	"	"	"	"
9	1	2	"	"	1		"	78	"	"	"	"	"	"	"	"
10	1	6	"	"	"		"	"	"	76	"	"	"	"	"	"
11	2	4	"	"	2		30.32	"	79	"	"	"	"	"	"	"
Noon	2	4	"	"	"		30.31	79	"	"	77	"	"	"	"	"

Distance run by Log since preceding Noon 18 knots 4 fathoms.

Latitude by D. R. at Noon 40 ° 22 ' 00 " N.

Longitude by D. R. at Noon 40 ° 48 ' 00 " W.

Latitude by Observations at Noon ⊙ 40 ° 23 ' 30 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 40 ° 54 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise 8 A.M. 24 ° 30 " 00 " W.

Variation of the Compass by Azimuth ⊙ observed at

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours

Water remaining on hand fit for me at Noon 1720 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 102 " 1685 "

P.M																
1	3	0	SE	SW	2		30.30	76	79	76	77	bc	Cum	8	S	All plane sail and
2	3	6	"	"	"		30.29	"	"	"	"	"	"	"	"	main topmast stay
3	4	4	"	SW by W	3		30.28	"	"	"	"	"	"	9	"	sail
4	5	0	"	WSW	"		30.27	"	78	"	"	"	"	8	"	Same with gaff topsail
5	5	0	"	"	"		30.25	"	"	"	"	"	"	9	"	"
6	5	0	"	W	2		"	"	"	"	76	"	"	"	"	"
7	4	4	"	"	1-2		"	77	"	75	"	"	"	7	"	"
8	3	4	"	"	"		30.26	"	"	"	"	"	"	5	"	"
9	4	0	"	"	2		"	"	77	"	"	"	Cum Nimb	4	"	"
10	4	2	"	"	3		30.25	"	"	"	"	"	"	"	"	"
11	5	2	"	"	"		30.24	"	"	"	"	"	"	8	"	"
Mid.	6	0	"	"	4		30.22	"	"	"	75	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Thursday September 6th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from S. and W. Bright starlight.
Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and W. Barometer falling slowly.

(Signed) C. K. Curtis
Lieut.

From 8 to Merid. Clear. Warm. Light breeze from S. and W. Cumulus clouds. At 9.15 inspected crew at quarters and exercised 1st and 2nd Divisions at single ships and apprentice boy's at signals. Instructed apprentice boys in seamanship. Several sail in sight at end of watch.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear. Warm. Light breeze from S. and W. Barometer falling slowly. Ship in sight standing to E.S.E.

(Signed) C. B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Gentle breeze from S. and W. Several sail in sight.
Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from W. Barometer rising slowly. At 6.15 mustered crew at quarters.

(Signed) C. K. Curtis
Lieut.

From 8 to Midnight. Cloudy, with passing showers first part of watch, clear and pleasant latter part. Light breeze, increasing to moderate breeze, from W. towards end of watch.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	6	0	SE	W	4		30.20	76	74	73	75	bc	Cum Nimb	5	S	All plane sail and
2	6	4	"	"	"		30.19	"	"	"	"	"	"	7	"	main top mast stay
3	7	0	"	WSW	"		30.17	"	"	"	"	"	"	9	"	sail.
4	6	6	"	"	"		"	"	"	"	"	"	"	8	"	"
5	5	0	"	W	"		"	"	"	74	"	"	Cum	"	"	"
6	5	4	"	"	"		30.14	"	"	"	76	"	"	"	"	"
7	6	0	"	"	5		"	"	77	"	"	"	"	9	"	"
8	6	6	"	"	"		30.12	"	"	"	"	"	"	8	"	"
9	7	4	"	"	4.5		30.14	"	"	76	"	"	"	7	"	Same with gaff
10	7	0	"	"	4		30.15	"	78	"	"	"	"	8	"	topsail.
11	6	4	"	"	"		30.14	"	"	"	"	"	"	"	"	"
Noon	4	4	"	"	3-4		30.13	77	79	"	"	"	"	"	"	"

Distance run by Log since preceding Noon 128 knots 6 fathoms.

Latitude by D. R. at Noon 39 ° 34 ' 20 " N.

Longitude by D. R. at Noon 38 ° 19 ' 00 " W.

Latitude by Observations at Noon ☉ 39 ° 43 ' 27 " N.

Longitude by Chronometer from Forenoon Observations ☉ 30 ° 20 ' 30 " W.

Current during the time 0 knots 3 fms. per hour, setting to the N.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 8 A.M. 24 ° 40 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1490 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 102 " 1360 "

P.M																
1	6	6	SE	W	3-4		30.11	77	79	76	74	bc	Cir Cum	8	S	All plane sail
2	7	0	"	"	"		30.09	"	"	"	"	"	"	"	"	and main topmast
3	7	0	"	"	"		30.08	"	"	"	"	"	"	7	"	stay sail.
4	7	6	"	"	3-5		"	"	"	"	"	"	"	"	"	"
5	7	6	"	"	5		30.07	"	"	74	"	"	"	5	"	"
6	8	2	"	"	"		"	"	78	"	"	"	"	4	"	"
7	8	2	"	"	"		"	"	"	"	"	"	Cum	5	"	Same except royal
8	8	0	"	"	"		30.06	"	"	"	"	"	"	9	"	"
9	8	4	"	S and W	"		30.07	"	76	73	"	"	"	"	"	"
10	8	4	"	"	"		"	"	"	"	"	"	"	"	"	"
11	8	0	"	"	"		30.06	"	75	"	"	"	"	"	"	"
Mid.	8	4	"	"	"		30.05	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Friday September 7th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool. Moderate breeze from W. shifting to S. Barometer falling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from W. Six sail in sight at end of watch. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Moderate breeze from W, increasing. Barometer falling slowly. Ship under all plane [plain] sail. At 9.15 exercised at fire quarters.

(Signed) C. K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate W. breeze. Cir. Cum. clouds. Quarterly Board of Survey condemned 25 gallons of vinegar lost by leakage.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Cloudy, cool. Fresh W. breeze. Barometer steady.

(Signed) C. B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Fresh breeze from W. Took in royals and hauled down flying jib. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Moderate breeze from S. and W. Barometer falling slowly. All plane [plain] sail to topgallant sails. At 9.30 took in gaff topsail.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.		Force.	Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.			Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	9	0	SE	S and W	5		30.04	77	75	74	74	bc	Cum Nimb	8	S	All plane[plain] sail
2	9	2	"	"	"		30.02	76	"	73	"	"	"	6	M	except royals, flying
3	9	4	"	"	"		"	"	"	"	"	"	"	"	"	jib, spanker and
4	9	4	"	"	"		30.00	"	"	"	"	"	"	8	"	gaff topsail.
5	9	2	"	"	6		"	"	"	"	"	"	"	5	"	"
6	8	4	"	"	5		30.01	75	"	74	73	"	"	4	"	"
7	8	4	"	"	"		"	"	"	"	"	"	"	"	"	"
8	8	2	"	"	6		30.00	"	"	"	"	"	"	3	"	"
9	8	4	"	"	"		"	"	"	"	"	"	Cir Cum	2	R	All plane sail
10	8	4	"	"	"		"	"	"	"	74	"	"	1	"	with M.T.M.S.S.
11	9	2	"	"	"		29.99	74	"	"	"	"	"	5	"	"
Noon	6	2	"	"	"		"	"	76	"	"	"	"	"	"	"

Distance run by Log since preceding Noon 198 knots 4 fathoms.

Latitude by D. R. at Noon 38 ° 28 ' 33 " N.

Longitude by D. R. at Noon 34 ° 24 ' 30 " W.

Latitude by Observations at Noon ⊙ 38 ° 30 ' 50 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 33 ° 57 ' 00 " W.

Current during the time knots 7 fms. per hour, setting to the E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 24 ° 10 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1260 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 102 " 1035 "

P.M																
1	9	0	SE	S and W	5		29.99	74	76	74	74	bc	Cir Cum Nimb	4	M	Same except flying
2	9	0	"	"	"		"	"	75	"	"	"	"	2	"	jib.
3	9	0	"	"	"		"	"	"	"	"	"	Cum Nimb	1	"	"
4	9	0	"	"	"		"	"	"	73	"	"	"	"	"	"
5	9	0	"	WSW	6		29.98	"	"	"	"	oqr	"	0	"	All plane sail to
6	8	2	"	"	"		"	"	74	"	"	"	"	"	"	topgallant sails,
7	5	0	"	NW	4		30.00	"	"	72	"	op	"	"	"	except spanker and
8	4	0	"	"	3		30.02	"	73	"	"	"	"	"	"	gaff topsail.
9	3	6	"	NNW	"		30.03	"	"	"	"	bc	Cum	9	"	single reefed topsail
10	3	0	"	"	2		"	"	"	"	"	"	"	"	"	topgallant sails from
11	1	6	"	"	"		30.02	"	74	"	"	"	"	"	S	jib and F.T.M.S.S.
Mid.	1	4	"	WSW	"		30.03	"	"	"	"	bcp	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Saturday September 8th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Strong wind from S. and W. Cum. Nimb. clouds.
At 2 took in spanker to ease the helm. At 2.45 in main topmast stay sail.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy, cool. Strong breeze from S. and W.

(Signed) C. B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Strong breeze from S. and W. At 9.15 set royals and flying jib. Barometer falling slowly. At 12, took in flying jib. Sea rough, swell setting to E. Ship steady. Heel of ship 6°.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Cloudy and cool. Fresh breeze from S. and W. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Overcast, rainy, squally. Fresh breeze from W.S.W. At 4.30 took in and furled royals.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Overcast, with passing showers. At 6 took single reef in topsails, and hauled down main topmast staysail. Barometer rising.

(Signed) C. B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light breeze from N. and W. shifting to S. At 10.25 a remarkably bright.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	1	0	SE	S and W	0-1		30.00	76	74	73	72	bc	Cum Nimb	0	S	Single reefed topsail
2	1	0	"	"	"	"	"	"	"	"	"	o	"	"	"	T.G. sails, M. sail,
3	1	0	"	"	"	"	"	"	"	"	"	"	"	"	"	F.T.M.S.S. jib.
4	1	0	"	"	"	"	"	"	"	"	"	"	"	"	"	"
5	No steerage way			Calm	0	"	"	"	"	"	73	or	Nimb	"	"	"
6	1	0	SE	NE	0-1		30.02	"	"	"	"	o	"	"	"	"
7	0	4	"	"	0-1	"	"	"	"	"	"	bc	"	"	"	"
8	No steerage way			Calm	0	"	"	74	73	"	"	o	Cum Nimb	"	"	"
9	"	"	"	NE	0-1	"	30.03	"	"	"	"	"	"	"	"	All plane[plain] sail
10	"	"	"	"	"	"	30.04	"	"	"	"	"	"	"	"	and M.T.M.S.S.
11	"	"	"	"	"	"	30.05	"	"	"	"	"	"	"	"	"
Noon	0	6	SE	"	2	"	"	73	"	"	72	"	"	"	"	"

Distance run by Log since preceding Noon 78 knots 6 fathoms.

Latitude by D. R. at Noon 38 ° 00 ' 40 " N.

Longitude by D. R. at Noon 32 ° 24 ' 00 " W.

Latitude by Observations at Noon ⊙ ° ' "

Longitude by Chronometer from Forenoon Observations ⊙ 32 ° 11 ' 00 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 23 ° 40 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 1030 "

Coal consumed during the preceding 24 hours tons 275 lbs.

Coal remaining on hand at Noon 102 " 810 "

P.M																
1	2	2	SE	NE	2		30.03	74	73	72	73	o	Cum Nimb	0	S	Same
2	3	6	"	NNE	3		30.04	"	"	"	74	"	"	"	"	"
3	5	0	"	"	"		30.05	"	"	"	"	"	"	"	"	"
4	5	2	"	N by E	4		30.06	"	"	"	"	bc	"	1	"	"
5	5	4	"	N	3-4		"	73	72	72	"	"	Cir Cum	2	"	"
6	5	4	"	"	"		"	"	"	"	"	"	"	4	"	"
7	5	4	"	"	3		30.09	"	"	71	73	"	"	6	"	"
8	5	6	"	"	"		30.11	"	"	"	"	"	"	5	"	"
9	5	4	"	"	"		30.13	"	"	"	"	"	"	6	"	"
10	5	4	"	"	"		30.12	"	"	"	"	"	"	7	"	"
11	6	0	"	"	4		"	"	"	70	"	"	"	8	"	"
Mid.	6	0	"	"	"		30.11	"	71	69	71	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Sunday September 9th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and cloudy. Calm and light airs from S. and W.
Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Overcast, rainy first part. At 5.20 light breeze sprung up from N.E. braced
around. Calm latter part of watch. At 7 hauled up foresail. Barometer steady.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Overcast, cool. Light airs from N.E. At 9.30 inspected at quarters, afterwards
called all hands to muster and Commanding Officer read prayers. At 11.30 set royals, flying jib
and main top mast staysail.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light breeze from N. and E. Barometer rising
slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Cloudy and pleasant. Light breeze from N. Barometer steady.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Partially clear. Light N[orther]ly breeze. Cir. Cum. clouds. New moon, set at
7.30.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear, cool. Moderate breeze from N.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	5	4	SE	N	3		30.11	73	70	67	72	bc	Cum	9	S	All plane[plain] sail
2	6	0	"	"	4		"	"	"	"	"	"	"	"	"	and main topmast
3	5	4	"	"	"		30.10	"	"	68	"	"	"	"	"	stay sail.
4	5	4	"	"	"		"	"	"	"	"	"	"	"	"	"
5	6	0	"	N	"		"	"	"	"	"	"	"	6	"	Same with close
6	5	4	"	"	3-4		30.14	"	"	69	"	"	"	3	"	reefed main sail.
7	6	0	"	"	"		30.15	"	72	"	"	"	"	5	"	"
8	6	0	"	"	"		"	"	"	"	"	"	"	"	"	"
9	6	0	"	"	"		"	72	"	"	73	"	Cir Cum	6	"	"
10	6	0	"	"	"		"	71	73	"	"	"	"	7	"	"
11	5	4	"	"	"		"	"	"	70	"	"	"	8	"	"
Noon	3	6	"	"	3		"	"	"	"	"	"	"	"	"	"

Distance run by Log since preceding Noon 129 knots 4 fathoms.

Latitude by D. R. at Noon 37 ° 11 ' 00 " N.

Longitude by D. R. at Noon 29 ° 40 ' 00 " W.

Latitude by Observations at Noon ⊙ 36 ° 53 ' 38 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 29 ° 42 ' 15 " W.

Current during the time knots fms. per hour, setting to the

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 8 A.M. 25 ° 40 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water during the preceding 24 hours

Water remaining on hand fit for me at Noon 800 "

Coal consumed during the preceding 24 hours 1 tons 1395 lbs.

Coal remaining on hand at Noon 100 " 1655 "

P.M																
1	5	4	SE 1/2 E	NE by N	3		30.16	71	73	70	73	bc	Cir Cum	7	S	Same
2	5	0	"	NE	"		"	"	"	"	74	"	"	6	"	"
3	4	4	"	"	"		"	"	"	"	"	"	"	7	"	"
4	4	6	"	"	"		30.15	"	"	"	"	"	"	9	"	"
5	4	4	"	"	"		30.17	"	72	"	"	"	"	"	"	"
6	5	0	"	"	"		"	70	71	69	"	"	"	"	L	"
7	5	0	"	N and E	"		"	73	"	68	"	"	"	8	"	"
8	5	0	"	"	"		"	"	"	"	"	"	Cum	"	"	"
9	4	6	"	"	"		"	"	"	"	"	"	"	"	"	"
10	4	6	"	"	"		"	"	"	"	"	"	"	"	"	"
11	5	0	"	"	"		"	"	"	"	"	"	"	"	"	"
Mid.	4	4	"	"	"		"	"	"	"	"	"	"	6	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Monday September 10th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Moderate breeze from N. Barometer steady.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear and pleasant. Moderate breeze from N. Barometer rising. At 6 started fires in two boilers. Nos. 5 and 7. Took second reef in main sail.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Pleasant. Light N[orther]ly breeze. Cir. Cum. clouds. At 9 started distiller. At 9.15 exercised at General Quarters, time as follows. Cast loose. Nav. Div, 1 m. Eng. Div, 1 m. 15 s. 2nd Div, 4 m. Surgeons Div, 5 m. Powder Div, 6 m. 30 s. 1st Div, 8 m. 20 s. Secure. Eng. Div, 2 m. 15 s. Nav. Div, 3 m. 10 s. Powder Div, 3 m. 35 s. Surgeons Div, 4 m. 2nd Div, 10 m. 35 s. 1st Div, 7 m. 35 s. At Merid, changed course to S.E. 1/2 E. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from N. and E. Fires banked in two boilers. Steam pressure 30 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from N. and E. Long swell from N.N.E. Fires banked in two boilers. Distilling.

(Signed) James K. Cogswell
Lieut.

From 6 to 8 P.M. Clear and pleasant. Light breeze from N. and E. Barometer steady. Heavy swell from N.N.E. At 6.15 mustered at quarters. Fires banked in two boilers. Steam pressure 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Pleasant. Light N.E. breeze. Cumulus clouds. Fires banked in two boiler. Steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	WINDS.					BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
	knots	Fathoms.	Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	3	6	SE 1/2 E	N and E	2		30.20	73	71	69	72	bc	Cum Nimb	7	L	All plane[plain] sail
2	4	0	"	"	3		"	"	"	68	"	"	"	8	"	and M. topmast stay
3	3	2	"	"	2		30.19	"	"	"	"	"	"	9	"	sail, close reefed
4	2	2	"	"	"		"	"	"	"	73	"	"	7	"	main sail.
5	1	6	"	"	"		30.20	"	"	"	"	"	"	2	S	"
6	2	0	"	"	"		"	"	"	70	"	"	Cum	5	"	"
7	2	2	"	"	"		30.22	"	"	"	75	"	"	8	"	"
8	2	0	"	"	1		30.24	"	"	"	"	"	"	9	"	"
9	1	0	SE by E	"	"		"	"	73	71	"	"	"	"	"	"
10	1	0	"	"	0-1		30.25	"	"	"	"	"	"	"	"	"
11	1	0	S by W	"	"		"	"	75	72	"	"	Cir Cum	7	"	"
Noon	No steerage way		"	"	"		30.24	"	76	73	"	"	"	8	"	Same except M. sail.

Distance run by Log since preceding Noon 82 knots 4 fathoms.

Latitude by D. R. at Noon 36 ° 28 ' 00 " N.

Longitude by D. R. at Noon 28 ° 05 ' 00 " W.

Latitude by Observations at Noon ☉ 38 ° 19 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 28 ° 08 ' 30 " W.

Current during the time knots 3 fms. per hour, setting to the S.W.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 7.30 A.M. 24 ° 50 " 30 " W.

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 1130 "

Water remaining on hand fit for me at Noon 1500 "

Coal consumed during the preceding 24 hours 9 tons 515 lbs.

Coal remaining on hand at Noon 91 " 1140 "

P,M															
1	No steerage way					30.24	73	76	74	75	bc	Cir Cum	8	S	Steam 6 boilers.
2	"	"	"	"	"	30.25	"	"	"	"	"	"	9	"	"
3	2	0	SE 1/2 E	S and E	0-1	"	74	"	"	"	"	"	"	"	"
4	8	6	"	"	"	"	"	"	73	"	"	"	"	"	"
5	9	2	"	SE	1	30.23	"	74	"	"	"	"	"	"	"
6	9	0	"	"	"	"	73	"	"	"	"	Cum Str	"	"	"
7	9	0	"	"	"	30.24	"	73	71	"	"	"	"	"	"
8	9	0	"	"	"	30.25	"	"	"	"	"	"	"	"	"
9	9	0	"	"	"	30.27	"	"	70	"	"	"	"	"	"
10	8	2	"	"	"	30.28	"	72	"	"	"	"	8	"	"
11	6	4	"	"	"	30.25	"	"	"	"	"	"	"	"	"
Mid.	8	0	"	"	"	30.26	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Tuesday September 11th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Light breeze from N. and E. Heavy swell from N.
Fires banked in two boilers. Distilling.

(Signed) C. B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. and E. High dawn. Fires banked in two
boilers. Distilling. Long swell from N. Barometer rising.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light airs from N. and E. Barometer steady. At 9.15
inspected at quarters. At 11.05 started fires in boilers 2, 4, 6 and 8. Took in and furled mainsail
and hauled down main topmast staysail. Long swell from N. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Calm. Cir. Cum. clouds. At 1, hauled up fore sail. At 2.18
called all hands, shortened and furled all sail. At 2.45 coupled propeller and started ahead. Sent
down royal yards. At 3, stopped engine to re-adjust high pressure steam valve. At 3.07 started
ahead. Steaming under six boilers. Average pressure 65 lbs. Distilling. Revolutions 52.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light airs from S. and E. Steaming with six boilers.
Barometer steady.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from S. and E. Long swell from N. Steaming two
thirds power. Average pressure 65 lbs. Revolutions 53. Distilling. Barometer rising slowly.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light breeze from S. and E. Steaming under six boilers.
Barometer variable. At 10.15 stopped engine to repair cock in feed pipe, started ahead at 11.05.
Average steam 60 lbs. Revolutions 50. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots		Fathoms.	WINDS.			Leeway.	BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface						
A.M																		
1	8	4		SE 1/2 E	S and E	1		30.26	74	72	69	75	bc	Cir Cum	9	S	Steam 6 boilers	
2	8	6	"		"	"		30.25	"	"	"	"	"	"	8	"	"	
3	9	0	"		"	"		30.23	"	"	"	"	"	"	"	"	"	
4	9	0	"		"	"		30.21	73	"	"	"	"	"	"	"	"	
5	8	6	"		"	"		30.23	"	"	70	"	"	"	4	"	"	
6	8	4	"		SE	"		"	"	"	"	"	"	"	6	"	"	
7	0	0	"		"	"		30.24	"	74	"	"	"	"	8	"	"	
8	7	6	"		"	"		"	"	"	72	"	"	"	"	"	"	
9	8	2	"		"	"		30.	"	75	"	76		Cum	9	"	"	
10	9	0	"		"	"		"	"	77	73	"	"	"	"	"	"	
11	8	2	"		"	2		30.24	"	"	"	"	"	Cum Str	"	"	"	
Noon	5	4	"		"	"		"	74	"	74	"	"	"	"	"	"	

Distance run by Log since preceding Noon 178 knots 4 fathoms.

Latitude by D. R. at Noon 35 ° 27 ' 00 " N.

Longitude by D. R. at Noon 24 ° 39 ' 30 " W.

Latitude by Observations at Noon ☉ 35 ° 17 ' 45 " N.

Longitude by Chronometer from Forenoon Observations ☉ 24 ° 39 ' 00 " W.

Current during the time knots 3 fms. per hour, setting to the S.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 7.30 24 ° 00 " 00 "

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 400 "

Water remaining on hand fit for me at Noon 1670 "

Coal consumed during the preceding 24 hours 12 tons 1235 lbs.

Coal remaining on hand at Noon 78 " 2145 "

P.M																	
1	8	0	SE 1/2 E	S and E	1		30.24	76	77	73	76	bc	Cir Cum		8	S	Same
2	8	0	"	"	"		30.22	"	"	"	"	"	"		"	"	"
3	8	4	"	"	"		30.21	"	"	"	"	"	"		9	"	"
4	8	4	"	"	"		30.20	"	"	"	"	"	"		"	"	"
5	8	2	"	"	"		"	75	76	72	"	"	"		"	"	"
6	8	4	"	"	"		30.19	"	75	"	"	"	"		8	"	"
7	8	4	"	"	"		"	"	74	"	"	"	"		"	"	"
8	8	0	"	"	"		30.23	"	"	"	"	"	"		9	"	"
9	8	0	"	"	"		30.21	74	"	71	"	"	"		8	"	"
10	8	0	"	"	"		30.22	"	"	"	75	"	"		"	"	"
11	8	0	"	"	"		"	"	"	"	"	"	"		"	"	"
Mid.	8	0	"	"	"		30.20	"	"	"	"	"	"		9	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Wednesday September 12th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy. Cool. Pleasant. Light breeze from S. and E. Cir. Cum. clouds. Steaming three fourths power. Average pressure 60 lbs. Revolutions 53. Temp of bunkers 98°. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from S. and E. Steaming six boilers. Average pressure 60 lbs. Revolutions 50. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear and pleasant. Light airs from S. and E. Steaming with six boilers. Average pressure 58 lbs. Revolutions 29. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from S. and E. Barometer falling slowly. Average pressure 60 lbs. Temp of bunkers 104°. Revolutions 50. Distiller in operation. Engaged in touching up spots on paintwork.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S. and E. Cumulus clouds. Steaming three fourths power. Average pressure 65 lbs. Temp of bunkers 104°. Revolutions 49. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear. Pleasant. Light airs from S. and E. Steaming with six boilers. Steam pressure 63 lbs. Revolutions 48. Temp of bunkers 100°. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and cool. Light airs from S. and E. Steaming with six boilers. Moon set at 9. Average pressure 55 lbs. Revolutions 47. Distilling.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots		Fathoms.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.		Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M.																
1	8	4	SE 1/2 E	S and E	1		30.18	74	72	71	76	bc	Cum	8	S	Steaming 6 boilers
2	8	4	"	"	"		"	"	"	"	"	"	Cum Nimb	6	"	Fore and aft sail.
3	8	4	"	"	2		30.17	"	"	"	"	"	"	5	"	"
4	8	0	"	"	"		"	"	"	"	"	"	Cum	7	"	"
5	7	6	"	"	3		30.16	75	76	72	"	"	Cur Cum	"	"	"
6	7	0	"	"	"		30.17	"	"	"	"	"	"	6	"	"
7	7	4	"	"	"		"	"	"	74	"	"	"	"	"	"
8	7	0	"	"	"		30.18	"	"	"	"	"	"	7	"	"
9	7	6	"	"	3-5		30.19	"	77	76	"	bcq	Cum Nimb	4	"	"
10	7	4	"	"	"		"	"	"	"	"	bcp	"	3	"	"
11	5	0	"	"	4		"	76	"	77	"	bc	"	2	"	"
Noon	6	0	"	"	"		30.18	"	"	"	"	"	"	3	"	"

Distance run by Log since preceding Noon 186 knots 0 fathoms.

Latitude by D. R. at Noon 34 ° 15 ' 00 " N.

Longitude by D. R. at Noon 21 ° 07 ' 00 " W.

Latitude by Observations at Noon ☉ 34 ° 17 ' 00 " N.

Longitude by Chronometer from Forenoon Observations ☉ 20 ° 55 ' 00 " W.

Current during the time knots 3 fms. per hour, setting to the E. 3/4 S.

Variation of the Compass by Amplitude ☉ observed at Sunrise ° " "

Variation of the Compass by Azimuth ☉ observed at 7.30 A.M. 21 ° 40 " 00 " W.

Water expended during the preceding 24 hours 230 gallons.

Water Condensed during the preceding 24 hours 400 "

Water remaining on hand fit for me at Noon 1840 "

Coal consumed during the preceding 24 hours 12 tons 275 lbs.

Coal remaining on hand at Noon 66 " 1870 "

P,M																
1	6	0	se 1/2 e	SSE	4		30.17	76	77	75	78	bc	Cum Nimb	2	S	Steaming 6 boilers
	1	4	se 1/4 e	"	"											
2	7	0	"	"	"		30.15	"	"	"	77	o	"	0	"	"
3	7	0	"	"	"		"	"	75	75	"	"	"	"	"	"
4	7	6	"	"	"		30.14	"	"	"	"	"	"	"	"	"
5	8	0	"	"	"		30.15	"	"	"	"	"	"	"	"	"
6	8	4	"	"	"		"	"	"	"	"	"	"	"	"	"
7	8	6	"	"	"		30.13	75	"	"	"	"	"	"	"	"
8	9	0	"	"	"		30.16	"	"	"	"	"	"	"	"	"
9	9	2	"	"	"		30.17	"	"	73	"	"	"	"	"	"
10	10	0	"	"	3		30.18	"	76	"	"	"	"	"	"	"
11	9	2	"	"	2		"	"	"	"	"	"	"	"	"	"
Mid.	8	4	"	"	"		30.17	"	"	"	"	"	"	"	"	"

Longitude by Chronometer from Afternoon Observations ☉ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Thursday September 13th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant, clouding over during watch. Light breeze from S. by W. last two hours. Barometer falling slowly. At 12.07 the heavens were illuminated by the flash of a very brilliant meteor, starting at an altitude of about 70°, traveling N.E. and bursting about 10° above the horizon. At 3, set jib, F.T.M. staysail, main trysail and spanker. Average steam 60 lbs. Revolutions 48. Temp of bunkers 100°. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Moderate S[outher]ly breeze. Cir. Cum. clouds. At 7.35 set gaff topsail. Sighted a sail at daylight, on lee quarter, and lost sight of her soon after. Exchanged colors with an American hermaphrodite brig standing to S. and W. Steaming three fourths power. Average pressure 62 lbs. Revolutions 43. Temp of bunkers 108°. Distiller in operation.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Rain squalls first hour. At 9.30 inspected at quarters, exercised 1st and 2nd Divs, at single sticks. Steaming with six boilers. At 10.15 stopped engines. At 10.27 started. At 10.31 stopped, started at 10.35. Average pressure 60 lbs. Revolutions 46. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Moderate breeze from S.E. Light sprinkling of rain latter part of watch. At 12.15 took in fore and aft sail. At 12.45 changed course to S.E. 1/4 E. Scraped spars. Steaming with six boilers Average pressure 62 lbs. Revolutions 49. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Overcast, drizzling rain last hour. Barometer steady. At 5, sent down top gallant yards. Average steam 63 lbs. Temp of bunkers 108°. Revolutions 53. Distiller in operation.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Cloudy, drizzling rain first part of watch. Cum. Nimb. clouds. At 6.15 mustered at quarters. Steaming six boilers. Average pressure 63 lbs. Revolutions 53. Temp of bunkers 108°. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Overcast, cool. Moderate breeze from S.S.E. Steaming six boilers. Average pressure 62 lbs. Revolution 8 to 53, Ten to 12, 48. Distilling.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
At Sea.

Hour	knots Fathoms.			WINDS.			BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. atft d.	Air Dry Bulb.	Air Wet Bulb.					
A.M																
1	8	0	SE 1/4 E	SSE	4		30.17	76	76	73	76	bc	Cum Nimb	1	S	Steaming six boilers
2	8	2	"	"	"		30.16	75	"	74	"	"	"	2	"	"
3	8	6	"	"	3		30.14	"	"	73	"	"	"	1	"	"
4	9	0		SE	"		30.13		75	71	"	"	"	"	"	"
5	8	4	"		1		30.12	"	"	72	"	"	Cum Str	3	"	"
6	3 4	4 4	SE 1/2 E	"	2		30.15	"	"	"	"	"	"	2	"	"
7	8	0	"	"	"		"	"	"	"	"	"	"	"	"	"
8	8	0	"	"	"		30.16	"	"	"	"	"	"	"	"	"
9	8	4	"	"	"		"	"	76	74	"	"	"	3	"	"
10	6	4	"	E	"		30.17	"	"	"	"	"	"	"	"	"
11	7	6	"	"	"		30.15	"	77	"	"	"	"	4	"	"
Noon	7	4	"	"	"		"	"	78	"	"	"	Cir Cum	"	"	"

Distance run by Log since preceding Noon	knots		fathoms.
Latitude by D. R. at Noon	0	'	"
Longitude by D. R. at Noon	0	'	"
Latitude by Observations at Noon ☉	0	'	"
Longitude by Chronometer from Forenoon Observations ☉	0	'	"
Current during the time	knots	fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0	"	"
Variation of the Compass by Azimuth ☉ observed at	0	"	"
Water expended during the preceding 24 hours			230 gallons.
Water Condensed during the preceding 24 hours			100 "
Water remaining on hand fit for me at Noon			1710 "
Coal consumed during the preceding 24 hours	8	tons	1235 lbs.
Coal remaining on hand at Noon	58	"	635 "

P,M														
1	7	6	Steaming under direction of navigator.	S by E	2	30.13	76	80	77	76	bc	Cum Nimb	3	S
2	8	0		SSE	"	30.12	"	79	76	"	"	"	2	" "
3				"	"	"	"	"	"	"	"	"	3	" "
4		At Anchor.		"	1	30.17	"	"	"	"	"	"	7	" "
5				"	"	30.12	"	81	"	"	"	"	5	" "
6				W	"	"	"	78	"	"	"	"	6	" "
7				"	"	"	"	77	75	"	"	"	"	" "
8				"	"	30.13	"	"	"	"	"	"	"	" "
9				NW	"	"	"	75	73	"	"	"	5	" "
10				"	"	"	"	74	72	"	"	"	4	" "
11				NE	2	"	"	75	"	"	"	"	7	" "
Mid.				N	"	30.12	74	72	70	"	"	"	8	" "

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Friday September 14th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Overcast and pleasant. Light breeze from S. and E. Steaming with six boilers. Average pressure 60 lbs. Revolutions 48. Distilling. Barometer falling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Cloudy, pleasant. Light airs from S.E. Barometer rising slowly. At 5 sighted land, eastern end of the Island of Madeira, bearing (pc) S.E. 1/4 S. Sighted several sail during watch and changed course frequently. Average pressure 60 lbs. Revolutions 47. Distiller in operation. Two sail in sight at end of watch.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Partially cloudy. Pleasant. Light E. breeze. Cir. Cum. clouds. Engaged in unbending gear and getting ship ready for port. At 11, crossed light yards. Steaming three fourths power. Average pressure 60 lbs. Revolutions 47. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Pleasant. Light breeze from S.S.E. Steaming six boilers. At 2.45 called all hands bring ship to anchor. At 3.35 let go port anchor, 18 fathoms water veering to 45 fathoms of chain. Draught forward 13 ft, 9 in. Amidships 14 ft, 10 in. Aft 15 ft, 10 in. Hauling fire in four boilers. Steam pressure 60 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Light W[ester]ly breeze. Cir. Cum. clouds. At 6 hauled fires in four boilers and banked fires in two. At sunset sent down light yards, unbent the light sails and stowed them below. Average steam pressure 30 lbs. Temp of bunkers 100°. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cool. Light variable airs. At 11, a large steamer came in and at 11.30 steamed out, bound N. Barometer steady. Fires banked in two boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				NNE	2		30.11	73	73	71		bc	Cir Cum	8		
2				"	"		30.11	"	"	70		"	"	"		
3				ENE	"		30.10	"	"	"		"	"	"		
4				"	"			72	"	71		"	"	"		
5				N	1		"	"	"	"		"	"	9		
6				"	"		30.11	71	"	"		"	"	"		
7				"	"		"	72	"	"		"	"	"		
8				"	"		30.12	74	74	72		"	"	"		
9				W	"		30.13	"	"	"		"	"	"		
10				"	2		30.16	"	76	74		"	"	"		
11				"	"		30.15	76	78	"		"	"	"		
Noon				"	1		30.15	"	79	76		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		230 gallons.
Water Received and Condensed during the preceding 24 hours		1200 "
Water remaining on hand fit for me at Noon		2900 "
Coal consumed during the preceding 24 hours	tons	1115 lbs.
Coal remaining on hand at Noon	57	1760 "

P.M																
1			West	1		30.14	76	79	77		bc	Cir Cum	8			
2			"	"		30.13	"	"	78		"	"	"			
3			"	"		30.12	"	"	77		"	"	"			
4			Calm	0			78	"	76		"	"	"			
5			"	"		"	"	81	"		"	"	9			
6			North	1		"	"	79	"		"	"	"			
7			"	"		"	"	78	"		"	"	"			
8			"	"		"	76	"	73		"	"	"			
9			"	"		30.14	"	74	"		"	"	"			
10			"	"		"	"	"	72		"	"	"			
11			"	"		30.15	74	"	"		"	"	"			
Mid.			"	"		30.17	73	72	71		"	"	"			

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	*	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	at	"

under the command of Commander Winfield Scott Schley
Saturday September 15th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light E.N.E. breeze. Cir. Cum. clouds.
Bright starlight. Fires banked in two boilers. Average steam pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Calm and warm. Light airs from N. Two English steamers came in and
anchored. Fires banked in two boilers. Average pressure 30 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from W. Fires banked in two boilers. Steam
pressure 30 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and warm. Light W[ester]ly airs. Stopped distilling at 3.35. Placed
Patrick Punch (O.S.) and John Millemore (O.S.2.C.) in double irons, to await action of
Commanding Officer, for smuggling liquor on board.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Calm and light airs from N. At 5.45 mustered at quarters
and served out clean hammocks. Receiving water. Hauled fires in two boilers. Received 730
gallons of fresh water.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and cool. Light N[orther]ly airs. Bright moonlight.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira.

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			North	1		30.12	74	72	72		bc	None	10		
2			"	"		"	"	73	"		"	"	"		
3			"	"		30.11	"	"	"		"	"	"		
4				0-1		"	"	"	"		"	"	"		
5			"	"		30.10	"	"	"		"	"	"		
6			"	"		"	"	"	"		"	"	"		
7			"	"		"	"	74	"		"	"	"		
8			"	"		"	"	"	73		"	"	"		
9			"	"		30.13	75	76	74		bc	Cum	9		
10			"	"		30.15	"	"	75		"	"	"		
11			West	"		"	76	77	76		"	"	"		
Noon			"	"		30.12	"	78	"		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2700 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	57	1485 "

P.M															
1		Variable	0-1		30.11	78	79	77		bc	Cum	9			
2		"	"		30.09	"	80	"		"	"	"			
3		"	"		30.08	"	"	78		"	"	"			
4		"	"		30.07	79	"	"		"	"	"			
5		West	"		"	80	82	80		"	"	"			
6		"	"		30.05	"	80	79		"	"	"			
7		Calm	"		30.07	77	78	78		t	None	10			
8		"	"		30.08	"	77	76		"	"	"			
9		Variable	"		30.09	"	"	"		"	"	"			
10		"	"		30.10	76	76	75		bc	Cum	8			
11		"	"		"	75	75	74		"	"	6			
Mid.		"	"		"	"	"	"		"	"	"			

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	*	"
Variation of the Compass by Amplitude	observed at Sunset	"
Variation of the Compass by	at	"

under the command of Commander Winfield Scott Schley
Sunday, September 16th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool. Light breeze from N.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear, warm and pleasant. Light airs from N. English steamer "Ancola" and small brigantine came in from S. at 6. Received on board for use of crew 163 3/4 lbs fresh beef and same quantity of vegetables.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and warm. Light airs from N. first part of watch, W. latter part. An English steamer came in from W. and anchored. At 10 Commanding Officers inspected ship and crew at quarters, afterwards read prayers.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear, warm and pleasant. Light variable airs. English Steamer "Ancola" and "Viella" left the harbor. An English transport and English merchant steamer came in, the latter anchored.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Clear and pleasant. Calm. At 4 sent an officer aboard the English Transport "Orontes" with compliments of Commanding Officer and offer of service. At 5.15 the "Orontes" steamed out bound for Liverpool. The "Orontes" was from Cape Town with troops.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant first part, clouding over last hour. Light variable airs.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols.	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			North	0-1		30.09	74	74	73		b	None	10		
2			"	"		"	"	"	"		"	"	"		
3			"	"		30.08	73	"	"		"	"	"		
4			"	"		"	"	73	73		bc	Cum	9		
5			"	2		30.06	"	"	"		"	"	"		
6			N by E	"		30.04	"	"	"		"	"	"		
7			NNE	"		"	"	"	"		"	"	"		
8			"	"		"	74	76	74		"	"	"		
9			"	0-1		30.07	75	77	75		"	"	"		
10			"	"		30.09	76	78	76		"	"	"		
11			SW	"		30.07	77	"	"		"	"	7		
Noon			"	"		30.05	78	76	78		"	"	"		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2470 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	100	" 90 "

P.M															
1		SW	1	30.04	78	79	78	bc	Cum Nimb	5					
2		"	"	"	"	80	"	"	"	"					
3		West	2	"	"	81	79	"	"	7					
4		"	"	"	"	79	"	"	"	6					
5		"	1	"	"	80	77	"	Cum	"					
6		"	"	"	"	79	"	"	"	5					
7		"	"	"	78	"	76	"	"	"					
8		Calm	0	30.05	"	"	"	"	"	"					
9		South	1	30.06	77	78	"	"	"	7					
10		North	2	"	"	77	74	"	Cir Cum	4					
11		"	"	"	76	76	"	"	"	6					
Mid.		"	"	30.05	"	"	"	"	"	"					

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Monday September 17th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and cool. Light airs from North. Moon set at 12.45. Bright starlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Pleasant. Light N.N.E. breeze. Cumulus clouds. At 5 an English came in from S. and E. Received onboard 163 3/4 lbs fresh beef and 16 3/4 lbs vegetable. By order of Commanding Officer, Irving Winbush (W.O.S.) was placed in double irons for being drunk on duty. Commenced coaling ship at 6.20.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear, warm and pleasant. Light airs from N.N.E. shifting to S.W. Finished coaling at 10, received on board 40 tons.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Cum. Nimb. clouds. Light W. breeze. At 2 an English steamer stood out to N. and E. Painted ship outside.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear, warm and pleasant. Calm and light airs from W.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Light W[ester]ly breeze. Cir. Cum. Nimb. clouds. At 10 a Portuguese bark got underway and stood out to sea.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

P,M									
1	W	1	30.00	75	78	75	bc	Cum Nimb	3
2	"	"	"	76	"	"	"	"	"
3	"	"	29.99	"	"	"	"	"	4
4	"	"	"	"	"	76	"	"	3
5	SW	"	30.00	77	79	77	"	"	6
6	"	"	"	76	78	76	"	"	7
7	NE	"	"	"	77	75	"	"	"
8	"	"	30.01	75	76	"	"	"	"
9	"	"	"	"	"	74	"	"	8
10	"	"	"	"	75	"	"	"	7
11	"	"	"	74	73	72	"	"	6
Mid.	NNW	"	30.00	"	73	"	"	Cir Cum	8

Longitude by Chronometer from Afternoon Observations	⊙	1	11
Longitude by Chronometer Observations	*	0	1
Variation of the Compass by Amplitude	observed at Sunset	0	1
Variation of the Compass by	at	0	1

under the command of Commander Winfield Scott Schley
Tuesday September 18th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from N. and E. Barometer steady. Bright starlight.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. and W. Barometer falling slowly.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Clear. Warm. Cum. Nimb. clouds. Light S.W[ester]ly breeze. At 9.15 inspected at quarters. Engaged in setting up fore and aft stage. Received in Construction Department 125 lbs. 3/4 in. round iron. Served out monthly money to crew.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light airs from W. Sent party of men ashore on liberty. Engaged in setting up main stays and fore topmast stays.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear. Pleasant. Light N.E. breeze. Cum. Nimb. clouds. Engaged in setting up fore and aft stays.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from N.E. Bright moonlight. Two large steamers came and anchored.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

Record of the sail the vessel is
under at end of watch.

Distance run by Log since preceding Noon		knots		fathoms.
Latitude by D. R. at Noon	0		1	"
Longitude by D. R. at Noon	0		1	"
Latitude by Observations at Noon ☉	0		1	"
Longitude by Chronometer from Forenoon Observations ☉	0		1	"
Current during the time	knots		fms. per hour, setting to the	
Variation of the Compass by Amplitude ☉ observed at Sunrise	0		"	"
Variation of the Compass by Azimuth ☉ observed at	0		"	"
Water expended during the preceding 24 hours				230 gallons.
Water Received				1000 "
Water remaining on hand fit for me at Noon				2900 "
Coal consumed during the preceding 24 hours		tons	275	lbs.
Coal remaining on hand at Noon	99	"	820	"

[illegible]

Longitude by Chronometer from Afternoon Observations	⊙	°	'	"
Longitude by Chronometer Observations	*	°	'	"
Variation of the Compass by Amplitude	observed at Sunset	°	'	"
Variation of the Compass by	at	°	'	"

under the command of Commander Winfield Scott Schley
Wednesday September 19th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Partially cloudy, cool. Light N[orther]ly breeze. At 1 English mail steamer left the harbor.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. Light airs from N. Commenced to paint ship inside.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Cloudy, pleasant. Light airs from W. freshening during latter part. Engaged in painting ship inside and setting up head stays. Received 1000 gallons fresh water.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Cloudy and pleasant. Light W[ester]ly breeze. Finished setting up head stays. Engaged in painting ship first part of watch. Rainy latter part of watch. English mail steamer left the harbor at 1.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Overcast with passing showers first three hours. Light breeze from W. shifting to N.W. Barometer steady. Sent liberty ashore. At 6.30 veered to 60 fathoms port chain.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and pleasant. Light variable airs. Bright moon and starlight. Clouds moving rapidly to E.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at't'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			North	1		29.92	76	76	75		bc	Cir Cum	7		
2			"	"		29.92	"	"	"		"	"	5		
3			"	"		29.91	"	75	74		"	"	6		
4			"	"		"	"	"	73		"	"	7		
5			"	"		29.93	74	"	74		"	"	"		
6			"	"		29.95	73	74	73		"	"	"		
7			"	"		29.97	74	73	74		"	"	8		
8			"	"		29.98	76	75	76		"	"	"		
9			SW	"		29.95	"	78	"		"	"	"		
10			"	"		"	"	"	"		"	"	"		
11			S	"		29.97	"	79	77		"	"	"		
Noon			SE	"		29.96	77	"	"		"	"	9		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2700 "
Coal consumed during the preceding 24 hours	tons	995 lbs.
Coal remaining on hand at Noon	98	" 2065 "

P.M															
1			SE	1		29.95	77	79	77		bc	Cum	9		
2			"	2		29.94	"	80	"		"	"	"		
3			W	3		29.93	"	79	76		"	"	7		
4			"	"		"	"	78	75		"	"	"		
5			E	"		"	"	76	"		"	"	8		
6			"	2		29.94	76	"	"		"	"	"		
7			Calm	0		29.95	75	75	72		"	"	9		
8			"	"		"	"	"	"		"	"	"		
9			W	1		29.96	"	74	"		"	Cir	7		
10			"	"		29.98	"	"	74		"	"	"		
11			"	"		"	"	73	72		"	"	"		
Mid.			"	"		"	"	"	71		"	"	"		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Thursday September 20th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear, cool, pleasant. Light airs from N. Bright moonlight.
(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from N. Barometer rising slowly.
(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear and pleasant. Light variable airs. An English steamer and brig came in
and anchored. U.S. Consul paid a visit to the Commanding Officer.
(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and cool. Light airs from S. E. increasing to light breeze and shifting
to W.
(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 P.M. Clear and cool. Light airs from E. first part, calm latter part of watch. Moon
rose at 6.45.
(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Light airs from W. Bright moonlight.
(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct
(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			North	1		29.97	74	74	70		bc	Cum	1		
2			"	1		29.97	74	74	70		o	"	0		
3			"	1		29.96	74	74	70		"	"	0		
4			"	1		29.95	73	73	70		bc	"	4		
5			"	1		29.95	73	72	69		"	Cir Cum	5		
6			"	1		29.96	72	71	68		"	"	7		
7			NNE	1		29.97	72	70	70		"	"	8		
8			West	1		29.97	73	72	72		"	"	9		
9			"	1		29.99	74	73	72		"	Cum	9		
10			"	1		30.01	74	74	73		"	"	9		
11			"	2		30.00	74	76	74		"	"	9		
Noon			"	2		30.00	74	76	74		"	"	9		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	i "
Longitude by D. R. at Noon	o	i "
Latitude by Observations at Noon ⊙	o	i "
Longitude by Chronometer from Forenoon Observations ⊙	o	i "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	" "
Variation of the Compass by Azimuth ⊙ observed at	o	" "
Water expended during the preceding 24 hours		230 gallons.
Water during the preceding 24 hours		"
Water remaining on hand fit for me at Noon		2470 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	98	" 1790 "

P.M															
1			West	3		29.99	75	77	74		bc	Cir Cum	8		
2			"	3		29.98	75	77	74		"	"	8		
3			"	3		29.98	75	77	74		"	"	8		
4			"	3		29.97	75	77	74		"	"	8		
5			"	2		29.97	75	77	74		"	"	8		
6			"	2		29.97	75	77	74		"	"	8		
7			"	1		29.98	75	76	73		"	"	8		
8			"	1		29.98	75	75	73		"	"	8		
9			NW	1		29.99	75	74	73		"	"	7		
10			N by W	2		29.99	75	74	72		"	"	7		
11			West	2		30.00	75	74	72		"	"	6		
Mid.			"	2		30.00	75	74	72		"	"	6		

Longitude by Chronometer from Afternoon Observations ⊙	o	i "
Longitude by Chronometer Observations *	o	i "
Variation of the Compass by Amplitude observed at Sunset	o	i "
Variation of the Compass by at	o	i "

under the command of Commander Winfield Scott Schley
Friday September 21st, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy and cool. Light W[ester]ly airs. Obscured moonlight.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Light W[ester]ly airs. Cir. Cum. clouds. Received on board 163 3/4 lbs. fresh beef and 163 lbs vegetables. By order of Commanding Officer. James Stevens (W.R.C.) was confined for safe keeping, being under the influence of liquor.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Light airs from W increasing to light breeze. Received onboard in Pay Dept, 7 Bbls. Beans. 8 Bbls Flour. 5 Bbls Sugar. 3 Chests of Tea. In Engineers Dept, 7 Casks Olive Oil. 6 Casks Colza Oil. 2 Packs Animal Charcoal. For Equipment Dept, 2 Cords Wood. In Construction Dept, 20 galls. Shellac. 1 Box Brick. The following men were absent without leave at quarters. P. D. Cass (C. and C.) Thos. Murphy (O.S.) John W. Scott (O.S.) Walter Carter (1.C.F.)

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Pleasant. Fresh W[ester]ly breeze. Cir. Cum. clouds. P. D. Cass (C. and C.) and Walter Carter (1.C.F.) returned onboard. By order of Commanding Officer, James Stevens (W.R.C.) was released from confinement. At 2, English Steamer "Africa" came in from E and at 2.10 English Steamer "Wist" got underway and stood out to E. Received in Equipment Dept, 500 coal bags.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light airs from W. Barometer steady. John W. Scott (O.S.) returned from liberty.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear. Cool. Pleasant. Light W[ester]ly breeze. Cir. Cum. clouds. Bright moonlight.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1				NNW	2		29.96	74	73	71		bc	Cum	5		
2				"	2		29.93	74	73	71		"	"	5		
3				"	2-3		29.93	74	73	71		"	"	2		
4				"	2-3		29.92	74	74	72		"	"	1		
5				"	4-2		29.92	74	74	72		bcqp	Cum Nimb	1-2		
6				WNW	2		29.93	74	74	72		bcp	"	1		
7				NW	1-2		29.93	74	74	72		o	"	0		
8				WNW	1		29.94	74	74	73		bc	"	2		
9				N	2		29.95	74	76	73		"	"	3		
10				ENE	2		29.96	75	76	74		"	"	3		
11				WSW	4		29.95	76	77	75		"	"	0		
Noon				"	4		29.94	76	77	76		"	"	5		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		230 gallons.
Water Received during the preceding 24 hours		900 "
Water remaining on hand fit for me at Noon		2920 "
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	98	1575 "

P,M																
1				WSW	4		29.94	76	78	76		bc	Cum Nimb	4		
2				SW	2		29.95	76	78	76		"	Cir Cum	5		
3				"	1		29.93	76	78	76		"	"	3		
4				SSE	1		29.93	76	78	76		"	"	4		
5				S	2		29.94	76	77	76		"	"	4		
6				SE	2		29.95	76	76	75		"	"	4		
7				ESE	1		29.95	76	76	74		"	"	5		
8				E	1		29.96	76	76	74		"	"	5		
9				NNE	1		29.95	76	76	74		"	"	1		
10				NE	1		29.95	76	76	74		"	"	2		
11				"	1		29.94	75	74	72		"	"	5		
Mid.				"	1		29.94	75	73	71		"	"	5		

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations *	o	"	"
Variation of the Compass by Amplitude observed at Sunset	o	"	"
Variation of the Compass by at	o	"	"

under the command of Commander Winfield Scott Schley
September, Saturday [sic] 22nd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant first part, clouding over last two hours. Light breeze, with puffs, from N.N.W. Barometer falling.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Cloudy, cool. Passing showers first part. Moderate breeze from N. and W. dying out during watch. Received fresh provisions for crew. At 7.30 a German Steamer came in and anchored.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy. Warm. Variable breeze first part, strong W.S.W. breeze latter part watch. Irving Winbush (W.O.S.) Pat. Runch (O.S.) John Millmore (O.S.) were released from confinement and sent to duty. Received on board 900 galls. fresh water; in Pay Dept, the following stores. 20 Bags Bread. 4 Boxes Candles. 10 Bbls Pork. 3 Bbls Beef; in Medical Dept, 1/2 Ream wrapping paper (white). 25 lbs White Sugar. 50 Envelopes (small). 8 lbs Condensed Milk. 1 lb Sponge. 8 lbs Extract Meat. 4 lbs Corn Starch. 4 lb Tapioca. 2 gross Vial Corks. 1/2 gross Bottle Corks. 3 Doz Vials (assorted). 4 oz Nutmegs. 1 Box Pens. 8 lbs Arrowroot. 8 lbs Barley. 4 lbs Tea (black). 4 Boxes Mustard Papers.

(Signed) Samuel C. Lemly
Ensign.

From Merid. to 4 P.M. Cloudy. Warm. Moderate breeze from S. and W, gradually dying out and shifting to S. and E. Stowing provisions.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Cloudy. Warm. Light variable breeze from S. and E. Cir. Cum clouds. At 5.35 German Steamer got underway and stood out to S. Received in Pay Dept, the following stores. 20 Bags Bread. Butter 2 Kegs.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Cloudy, cool. Light airs from N. and E. Bright moonlight.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. att'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M															
1			East	2		29.93	74	75	73		bc	Cir Cum	2		
2			"	2		29.92	74	75	73		"	"	2		
3			"	2		29.91	73	75	73		"	"	2		
4			"	2		29.90	73	75	73		"	"	2		
5			Calm	0		29.90	73	73	72		o	"	0		
6			North	1		29.90	73	73	72		"	"	0		
7			Calm	0		29.90	73	73	72		or	Cum Nimb	0		
8			"	0		29.90	73	73	72		"	"	0		
9			"	0		29.91	73	73	72		"	Nimb	0		
10			W by S	1		29.91	73	73	72		"	"	0		
11			"	1		29.91	73	72	71		"	"	0		
Noon			WSW	1		29.88	73	72	71		"	"	0		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	o	"
Longitude by D. R. at Noon	o	"
Latitude by Observations at Noon ⊙	o	"
Longitude by Chronometer from Forenoon Observations ⊙	o	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	o	"
Variation of the Compass by Azimuth ⊙ observed at	o	"
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2690
Coal consumed during the preceding 24 hours	tons	275 lbs.
Coal remaining on hand at Noon	98	1240

P,M															
1			West	1		29.83	70	71	70		or	Nimb	0		
2			"	1		29.83	70	70	69		bc	Cum Nimb	1		
3			Calm	1		29.82	70	71	70		"	"	2		
4			West	1		29.81	70	72	70		"	Cir Cum	7		
5			"	1		29.82	72	72	70		"	"	6		
6			"	1		29.82	72	72	70		"	"	7		
7			NE	1		29.82	72	71	69		"	"	6		
8			"	1		29.83	72	71	69		"	"	7		
9			North	1		29.83	72	70	69		"	"	5		
10			"	1		29.84	72	71	70		"	Cum Nimb	1		
11			"	1		29.84	71	71	70		"	"	1		
Mid.			"	3		29.82	70	70	69		"	Cir Cum	4		

Longitude by Chronometer from Afternoon Observations ⊙	o	"	"
Longitude by Chronometer Observations	o	"	"
Variation of the Compass by Amplitude	o	"	"
Variation of the Compass by	o	"	"

*

observed at Sunset

at

under the command of Commander Winfield Scott Schley
Sunday September 23rd, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy. Pleasant. Light E[aster]ly breeze. Cir. Cum. clouds.
Obscured moonlight.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Overcast and pleasant. Rainy last two hours of watch. Calm. Portuguese
Steamer "Luso" came in and anchored.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Overcast, raining. Calm and light airs from S. and W.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Overcast and rainy first part, clear latter part of watch. Calm and light
from W. Barometer falling slowly.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light variable airs.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Cloudy and cool. Light airs from N. Light sprinkling of rain part of watch.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Funchal, Madeira

Hour	knots	Fathoms.	Courses steered.	WINDS.		Leeway	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
				Direction.	Force.		Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1				N	0-1		29.82	72	71	69		bc	Cir Cum	3		
2				NNW	0-1		29.82	72	72	70		"	"	4		
3				"	1		29.82	72	72	70		"	"	3		
4				"	0-1		29.83	72	71	69		"	Cum	9		
5				"	0-1		29.83	75	69	69		"	"	9		
6				"	0-1		29.83	75	69	69		"	"	9		
7				"	0-1		29.85	75	69	69		"	"	9		
8				"	0-1		29.86	75	70	70		"	"	9		
9				SSW	0-1		29.89	73	72	72		"	"	9		
10				"	0-1		29.89	76	74	74		"	"	9		
11	6	0	S by W 1/2 W	"	2		29.90	76	76	74		"	"	8		Steaming with
Noon	6	4	"	"	1		29.90	74	74	72		"	"	7		four boilers.

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		2460 "
Coal consumed during the preceding 24 hours	8 tons	lbs.
Coal remaining on hand at Noon	90	" 1240 "

P,M															
1	2	0	S by W 1/2 W	SSW	1	29.90	74	77	75		bc	Cum	3	S	Fore and aft sail
2	Firing at target			"	1	29.88	75	76	73		"	"	2	"	foresail and topsails.
3	4	0	S by W 1/2 W	ESE	2	29.86	75	74	71		"	"	2	"	"
4	5	0	"	"	2	29.84	75	74	71		"	"	3	"	"
5	5	4	"	SE	2	29.84	75	74	72		"	Cir Cum	7	"	Fore and aft sail
6	5	4	"	"	2	29.85	75	74	72		"	"	7	"	and foresail.
7	5	0	"	SSW	2	29.87	74	74	72	77	"	"	9	"	Steaming four boilers.
8	4	4	"	"	1	29.87	74	74	72	77	"	"	9	"	"
9	4	0	"	"	1	29.88	74	73	71	77	"	Cum	9	"	Head sails, spanker
10	4	4	"	"	1	29.89	74	74	72	77	"	"	9	"	and main trysail.
11	6	0	"	Calm	0	29.88	74	73	71	77	"	"	9	"	"
Mid.	7	0	"	"	0	29.88	74	74	72	77	"	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations	°	' "
Variation of the Compass by Amplitude	°	' "
Variation of the Compass by	°	' "

under the command of Commander Winfield Scott Schley
Monday September 24th, 1877.

, U. S. Navy.

[Editor's Note: The following note was attached to the logbook entry for Sept. 24, 1877.]

Expended at target practice the following ordnance stores.

9	lbs	Cannon powder in	15 lbs	charges	
240	"	"	"	"	10 "
36	"	"	"	"	6 "
6	Shells	XI in	loaded and fired	5	"
24	"	IX in	"	"	5 "
6	"	60 pdr	"	"	5 "
50	Quill	primers.			

(Signed) Asa Walker, Lieut.

under the command of Commander Winfield Scott Schley
Monday September 24th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool. Light airs from N. Bright moonlight.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Clear and pleasant. Light airs from N.N.W. Crew employed in preparing ship for sea. At 6.30 started fires in boilers 1, 3, 2 and 4. Bent light sails. At 7.45 crossed royal and topgallant yards. Received in Pay Dept, 630 lbs bread. Barometer rising.

(Signed) John Schouler
Lieut Comdr.

From 8 to Merid. Clear and pleasant. Light airs from S. and W. At 9 mustered at quarters. At 9.15 called all hands up anchor. At 10 got underway and steamed out of Funchal. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. Lieut. C. K. Curtis was placed under arrest, by order of Commanding Officer, for being drunk while on duty, and confined to his room under charge of sentry, until further orders. Steaming with four boilers. Average pressure 60 lbs. Revolutions 40. Secured anchors for sea.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from S. and W. shifting to S. and E. At 12.20 stopped steaming, lowered target overboard and sounded call to General Quarters. Fired at target. At 2 started ahead. At 2.10 stopped, lowered life boat and picked up sponge. At 2.25 hoisted boat and started ahead on course. At 2.45 set fore and aft and foresail. At 3.15 set fore and main topsails. Lieut. C. K. Curtis was released from arrest and restored to duty, by order of Commanding Officer. Average steam 55 lbs. Revolutions 35.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 6 P.M. Clear and pleasant. Light breeze from S.E. Steaming with four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from S. and W. Short swell from N. at 6.30 hauled down head sails, took in foresail and spanker. Moon rose at 6.30. Steaming with four boilers. Average pressure 40 lbs. Revolutions 35.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear and pleasant. Calm and light airs from S.S.W. Bright moonlight. Barometer steady. At 8.30 set fore and aft sail. Steam 50 lbs. Revolutions 30. Temp of bunkers 90°.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.		TEMPERATURE.				State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway.	Height in inches.	Ther. at't d.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A,M																
1	7	2	S by W 1/2 W	S	1		29.86	74	74	72	77	bc	Cir Cum	7	S	
2	7	6	"	"	1		29.84	74	74	71	77	"	"	7	"	
3	7	6	"	"	1		29.85	74	74	71	77	"	"	6	"	
4	8	0	"	"	2		29.85	74	74	72	77	"	"	6	"	
5	7	0	"	"	2		29.84	74	74	72	77	"	"	7	"	
6	6	4	"	"	2		29.86	74	74	72	77	"	"	8	"	
7	7	0	"	SSE	1		29.88	74	75	73	77	"	"	4	"	
8	6	2	"	S	1		29.90	74	76	74	77	"	"	3	"	
9	5	2	"	"	1		29.90	75	76	74	77	"	"	1	"	
	2	2	S													
10	7	0	"	SSE	1		29.89	76	76	74	77	"	"	2	"	
11	7	4	"	SE	1		29.87	75	76	73	77	"	"	2	"	
Noon	7	0	"	"	1		29.87	76	76	73	77	"	"	2	"	

Distance run by Log since preceding Noon 139 knots 4 fathoms.

Latitude by D. R. at Noon 30 ° 03 ' 42 " N.

Longitude by D. R. at Noon 16 ° 33 ' 00 " W.

Latitude by Observations at Noon ⊙ 30 ° 03 ' 54 " N.

Longitude by Chronometer from Forenoon Observations ⊙ 16 ° 40 ' 00 " W.

Current during the time knots 2 fms. per hour, setting to the E.

Variation of the Compass by Amplitude ⊙ observed at Sunrise ° " "

Variation of the Compass by Azimuth ⊙ observed at 7.30 A.M. 19 ° 00 " 00 " W.

Water expended during the preceding 24 hours 290 gallons.

Water during the preceding 24 hours "

Water remaining on hand fit for me at Noon 2170 "

Coal consumed during the preceding 24 hours 8 tons 255 lbs.

Coal remaining on hand at Noon 82 " 985 "

P.M																
1	7	2	S	ESE	1		29.87	76	76	73	77	bc	Cum	3	S	Head sails, foresail,
2	5	0	"	"	1		29.85	76	77	73	78	"	"	5	"	M. trysail and spanker.
3	4	6	"	"	1		29.85	76	77	73	78	"	"	5	"	"
4	5	0	"	"	1		29.85	76	77	73	78	"	"	7	"	"
5	4	6	"	"	1		29.87	76	76	73	78	"	"	7	"	"
6	4	0	"	"	1		29.87	75	76	72	77	"	"	6	"	"
7	4	6	"	"	1		29.89	75	75	71	77	"	"	9	"	"
8	5	0	"	"	1		29.90	75	75	71	77	"	"	9	"	"
9	5	0	"	"	1		29.92	75	75	72	77	"	"	9	"	"
10	5	0	"	NE	1		29.92	75	75	72	78	"	"	9	"	"
11	4	6	"	"	1		29.92	75	75	72	78	"	Cir Cum	7	"	"
Mid.	4	2	"	"	1		20.92	75	75	72	78	"	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊙ ° ' "

Longitude by Chronometer Observations * ° ' "

Variation of the Compass by Amplitude observed at Sunset ° ' "

Variation of the Compass by at ° ' "

under the command of Commander Winfield Scott Schley
Tuesday September 25th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light S[outher]ly breeze. Cir. Cum. clouds. Bright moonlight. At 12.15 took in fore and aft sail. Steaming under half power. Average pressure 58 lbs. Revolutions 41.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Cloudy pleasant. Light airs from S. Steaming with four boilers. Average pressure 65 lbs. Revolutions 44. Barometer rising.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Light breeze from S. and E. At 8.45 changed course to S. At 9.15 inspected at quarters, afterwards Companies A and B were exercised at small arms and Co. C at howitzer drill. Marine Guard at small arms. At 11 set all fore and aft sails and foresail. Loosed mainsail today and refurled it. Steaming with four boilers. Average pressure 62 lbs. Revolutions 46.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Light airs from S. and E. Barometer falling slowly. Average steam 55 lbs. Revolutions 26.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Light E.S.E. breeze. Cumulus clouds. At 4.10 sighted high land off starboard bow, bearing (pc) S.S.W. 1/4 W. At 5.50 mustered at quarters. Steaming one half power. Average pressure 60 lbs. Revolutions 26.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Light airs from E.S.E. Steaming with four boilers. Average pressure 59 lbs. Revolutions 26. Temp of bunkers 99°.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from N.E. At 10 took in fore and aft sail except F. T. M. staysail. At 11 sighted Amaga Light on starboard bow. Steaming with four boilers. Average pressure 55 lbs. revolutions 26. At end of watch Amaga Light bore (pc) S 3/4 W.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Santa Cruz, Teneriffe [Tenerife]

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	4	0	S	NE	1		29.89	75	75	73	77	bc	Cum	9	S	Foretopmast stay-
2	4	4	"	"	1		29.87	75	75	73	77	"	"	8	"	sail and foresail.
3	4	6	S 1/4 W	"	1		29.87	75	75	72	77	"	"	8	"	"
4	5	0	"	"	1		29.87	75	75	72	77	"	Cir Cum	9	"	"
5	5	0	"	E	1		29.88	74	75	73	77	"	"	8	"	Steaming.
6				"	1		29.89	74	74	73	77	"	"	8	"	"
7				"	2		29.90	74	75	74	77	"	"	9	"	"
8				"	2		29.91	75	76	74		"	"	9	"	"
9	At Anchor Santa Cruz			"	2		29.92	76	79	76		"	"	8	"	
10				"	2		29.92	78	82	78		"	"	8	"	
11				ENE	3		29.92	78	82	78		"	"	8	"	
Noon				"	4		29.91	78	82	78		"	"	8	"	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	0	"
Longitude by D. R. at Noon	0	"
Latitude by Observations at Noon	0	"
Longitude by Chronometer from Forenoon Observations	0	"
Current during the time	knots	fms. per hour, setting to the
Variation of the Compass by Amplitude	0	"
Variation of the Compass by Azimuth	0	"
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours
Water remaining on hand fit for me at Noon		1940
Coal consumed during the preceding 24 hours	3	tons 230 lbs.
Coal remaining on hand at Noon	79	" 755

P.M																
1			E	4			29.90	78	82	78		bc	Cir Cum	8		
2			NE	3			29.90	79	81	78		"	"	9		
3			"	3			29.90	80	82	78		"	"	9		
4			NNE	3			29.90	80	82	80		"	"	9		
5			"	2			29.90	79	81	76		"	Cum	9		
6			ENE	2			29.91	79	80	77		"	"	9		
7			"	2			29.93	78	79	76		"	"	8		
8			"	1-2			29.93	78	78	75		"	"	9		
9			NE	1			29.93	78	78	75		"	Cir Cum	6		
10			"	1			29.94	78	78	75		"	"	6		
11			"	1			29.94	77	76	74		"	"	5		
Mid.			"	2			29.96	76	76	74		"	"	7		

Longitude by Chronometer from Afternoon Observations	0	"
Longitude by Chronometer Observations	0	"
Variation of the Compass by Amplitude	0	"
Variation of the Compass by	0	"

under the command of Commander Winfield Scott Schley
Wednesday September 26, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Bright moonlight. Land in sight last two hours of watch. At 2 changed course to S. $1/4$ W. Took in F. T. M. S. S. and Foresail. Light on Amaga Point bore (pc) at end of watch S. by W. $3/4$ W.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Warm. Light E[aster]ly breeze. Cir. Cum. clouds. Standing in for Santa Cruz under directions of Navigator. Engaged in getting ship ready for port. At 8, local pilot came onboard.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Warm. Moderate breeze from N. and E. At 8.20 came to anchor off Santa Cruz in 18 fathoms water, veering to 45 fathoms port chain. Bearings. Mole W. by S. $1/2$ S. Fort San Miguel N by E. Draught forward 14 feet. Amidships 15 feet. Aft 16 feet. Health Officer came alongside and granted pratique. Fires banked in four boilers. Steam pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clean and pleasant. Light breeze from N. and E. Commanding Officer accompanied by several officers, in full dress uniform, paid an official visit to the Governor General and other officials ashore. Banked fires in four boilers. Average pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N. and E. Barometer rising slowly. At sundown sent down royal and topgallant yards. Fires banked in four boilers. Average pressure 30 lbs. Temp. of bunkers 96° . Distiller in operation. Commanding Officer of Spanish Gunboat paid official visit to ship.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Midnight. Clear and cool. Light N.E[aster]ly airs. Bright moonlight. At 12.20 stopped distilling. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Santa Cruz, Teneriffe

Hour	knots Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
		Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M															
1			NE	1		29.94	77	76	74		bc	Cum	9		
2			"	1		29.94	77	76	73		"	"	9		
3			"	2		29.94	76	74	72		"	"	9		
4			"	2		29.94	76	74	72		"	"	9		
5			"	2		29.95	76	75	73		"	"	8		
6			"	1-2		29.98	75	75	73		"	"	8		
7			"	1-2		29.99	76	77	74		"	"	8		
8			"	1-2		30.01	76	79	75		"	"	8		
9			ENE	2		30.01	77	80	76		"	"	8		
10			E	3		30.02	78	81	78		"	"	8		
11			"	4		30.01	79	82	77		"	"	8		
Noon			"	4		30.00	79	82	76		"	"	8		

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		730 "
Water remaining on hand fit for me at Noon		2440 "
Coal consumed during the preceding 24 hours	2 tons	970 lbs.
Coal remaining on hand at Noon	76 "	2025 "

P.M															
1			E	4		29.98	80	82	78		bc	Cir Cum	7		
2			"	3		29.98	80	82	78		"	"	8		
3			"	3		29.98	80	81	77		"	"	5		
4			"	3		29.98	80	81	77		"	"	7		
5			N	3		29.99	77	79	75		"	"	5		
6			"	2		29.99	77	79	75		"	Cum	7		
7			"	1		30.01	76	77	74		"	"	8		
8			"	1		30.02	76	76	73		"	"	9		
9			NE	1		30.02	76	76	73		"	"	8		
10			"	1		30.02	76	76	73		"	"	8		
11			"	1		30.02	76	76	74		"	"	8		
Mid.			"	1		30.01	76	76	74		"	"	8		

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Thursday September 27th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light airs from N.E. Bright moonlight. Fires banked in four boilers. Average pressure 20 lbs.

(Signed) James K. Cogswell
Lieut.

From 4 to 8 A.M. Clear, pleasant. Light breeze from N.E. Barometer rising. At 8 crossed royal and topgallant yards.

(Signed) Clinton K. Curtis
Lieut.

From 8 to Merid. Clear. Pleasant. Fresh E[aster]ly breeze. Cumulus clouds. Fires banked in four boilers. Average pressure 30 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E. The Naval and Military Governor and Staff visited the ship. Fires banked in four boilers. Average pressure 25 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light airs from N. At 6.30 a German steamer came in from N. and E. and anchored. Fires banked in four boilers. Average pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Midnight. Clear. Pleasant. Light N.E[aster]ly breeze. Cumulus clouds. Moon rose at 8.40. By order of Commanding Officer, Geo. Vaughn (Lds) and Elison Parker (Lds) for neglect of duty, stood four hours extra watch. Fires banked in four boilers. Average pressure 27 lbs. Temp of bunkers 96°. Distilling.

(Signed) Samuel C. Lemly
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Santa Cruz, Teneriffe

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface			
A.M														
1				NE	1		30.00	76	76	73	bc	Cum	5	
2				Calm	0		30.00	76	76	73	"	"	2	
3				NE	1		29.99	76	76	73	"	"	3	
4				"	1		29.99	76	76	73	"	"	4	
5				"	1		29.99	76	75	73	"	"	6	
6				N	1		29.99	75	75	73	"	"	2	
7				Calm	0		30.01	77	75	75	"	Cir Cum	2	
8				"	0		30.01	77	77	74	"	"	3	
9				E	1		30.02	77	78	75	"	"	3	
10				"	1-2		30.02	77	79	75	"	"	3	
11				"	2		30.01	77	80	76	"	"	4	
Noon				"	2		30.01	78	81	76	"	"	5	

Distance run by Log since preceding Noon	knots	fathoms.
Latitude by D. R. at Noon	°	' "
Longitude by D. R. at Noon	°	' "
Latitude by Observations at Noon ⊙	°	' "
Longitude by Chronometer from Forenoon Observations ⊙	°	' "
Current during the time knots fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at	°	" "
Water expended during the preceding 24 hours		230 gallons.
Water Condensed during the preceding 24 hours		300 "
Water remaining on hand fit for me at Noon		2510 "
Coal consumed during the preceding 24 hours	2 tons	1770 lbs.
Coal remaining on hand at Noon	74 "	255 "

P.M														
1				E by S	2		30.00	78	82	77	bc	Cir Cum	6	
2				"	2		29.99	79	82	78	"	"	6	
3				ENE	2		29.99	79	82	78	"	"	7	
4				NNE	2		29.99	78	81	77	"	"	8	
5				NE	2		29.99	78	79	75	"	"	5	
6				"	2		29.99	78	79	75	"	Cum	6	
7				"	1		30.00	76	78	74	"	"	8	
8				Calm	0		30.02	76	78	74	"	"	6	
9				"	0		30.02	77	78	76	"	"	5	
10				SSW	1		30.02	77	77	76	"	"	6	
11				"	1		30.02	77	77	75	"	"	8	
Mid.				"	1		30.02	77	77	75	"	"	8	

Longitude by Chronometer from Afternoon Observations ⊙	°	' "
Longitude by Chronometer Observations *	°	' "
Variation of the Compass by Amplitude observed at Sunset	°	' "
Variation of the Compass by at	°	' "

under the command of Commander Winfield Scott Schley
Friday September 28th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Cloudy, cool, pleasant. Light airs from N.E. Obscured moonlight.
Fires banked in four boilers. Average pressure 20 lbs. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 4 to 8 A.M. Cloudy and pleasant. ~~Light breeze from E.~~ Calm. Fires banked in four boilers.
Average pressure 25 lbs. Distilling.

(Signed) James K. Cogswell
Lieut.

From 8 to Merid. Clear and pleasant. Light breeze from E. Barometer steady. Fires banked in
four boilers. Distilling. Average steam 25 lbs. At 9.15 exercised at fire quarters. Medical officer
left ship to render professional aid to master of whaling bark "Petrel" of New Bedford Mass.

(Signed) Clinton K. Curtis
Lieut.

From Merid. to 4 P.M. Clear. Warm. Moderate breeze from E. At 1.15 German steamer "Luxo"
left the harbor. Engaged in setting up main topgallant stay. Fires banked four boilers. Average
pressure 25 lbs. Temp. of bunkers 95°. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 P.M. Clear and pleasant. Light breeze from N.E. Calm last hour. At sunset sent
down royal and topgallant yards. Bent light sails. Fires banked in four boilers. Distilling.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Light airs from S. and W. Barometer steady. At 8.15
and English steamer came in and anchored. Obscured moonlight last part of watch. Average
steam 25 lbs. Distilling.

(Signed) Clinton K. Curtis
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, Santa Cruz, Teneriffe

Hour	knots	Fathoms.	WINDS.		Leeway.	BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.	
			Courses steered.	Direction.		Force.	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.						Water at surface
A,M																
1				NE	1	30.02	75	76	73		bc	Cir Cum	6			
2				"	1	30.07	75	76	73		"	"	6			
3				"	1	30.00	75	76	73		"	"	6			
4				"	1	30.00	75	76	73		"	"	6			
5				Calm	0	30.02	75	74	72		"	"	7			
6				"	0	30.03	75	75	73		"	"	4			
7				ESE	1	30.04	75	75	73		"	"	6			
8				N	1	30.06	76	76	74		"	"	8			
9				S	1	30.07	76	79	75		"	"	3			
10				ESE	1	30.07	77	80	76		"	"	3			
11				"	2	30.06	78	81	78		"	"	3			
Noon	Standing out of Santa Cruz			"	4	30.05	76	77	74		"	"	3		Steaming 4 boilers. All plain sail except spanker and gaff topsail also mainsail.	
Distance run by Log since preceding Noon																
											knots	fathoms.				
Latitude by D. R. at Noon											°	'	"			
Longitude by D. R. at Noon											°	'	"			
Latitude by Observations at Noon ⊙											°	'	"			
Longitude by Chronometer from Forenoon Observations ⊙											°	'	"			
Current during the time											knots	fms. per hour, setting to the				
Variation of the Compass by Amplitude ⊙ observed at Sunrise											°	"	"			
Variation of the Compass by Azimuth ⊙ observed at											°	"	"			
Water expended during the preceding 24 hours											230 gallons.					
Water Condensed during the preceding 24 hours											260 "					
Water remaining on hand fit for me at Noon											2540 "					
Coal consumed during the preceding 24 hours											4	tons	150	lbs.		
Coal remaining on hand at Noon											70	"	105	"		
P,M																
1	1	"	"	ESE	3	30.03	75	76	73	78	bc	Cir Cum	4	S	"	
2	2	4	SW by S	"	3	30.02	76	77	73	78	"	"	5	"	"	
3	5	4	"	"	3	30.03	77	77	73	78	"	"	7	"	Same with gaff topsail	
4	5	6	SW 1/2 S	"	3	30.03	77	77	73	78	"	"	8	"	and spanker.	
5	5	6	SW	ENE	4	30.03	77	77	73	78	"	"	8	"	Main try sail and	
6	5	4	"	NE by E	3	30.03	76	76	72	77	"	"	8	"	all plain sail except	
7	5	4	SW by W	ENE	3	30.05	76	77	74	78	"	"	8	"	M. sail and F.T.M.S.S.	
8	5	4	"	"	3	30.07	76	76	74	78	"	Cum	8	"	"	
9	5	6	"	"	3	30.09	76	76	74	78	"	"	8	"	"	
10	6	0	"	"	3	30.08	76	77	74	78	"	"	9	"	"	
11	6	0	"	"	3	30.08	76	77	74	78	"	"	9	"	"	
Mid.	5	4	"	"	4	30.08	76	77	74	78	"	"	7	"	"	
Longitude by Chronometer from Afternoon Observations ⊙											°	'	"			
Longitude by Chronometer Observations											°	'	"			
Variation of the Compass by Amplitude											°	'	"			
Variation of the Compass by											°	'	"			

under the command of Commander Winfield Scott Schley, U. S. Navy.
Saturday September 29th, 1877.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear. Cool. Pleasant. Light N.E[aster]ly breeze. Bright moonlight. Fires banked in four boilers. Average pressure 25 lbs. Distilling.

(Signed) Samuel C. Lemly
Ensign.

From 4 to 8 A.M. Clear and pleasant. Calm. Light airs from S. and E. last hour. Fires banked in four boilers. Steam pressure 20 lbs. Temp. of bunkers 94°. Captains Clerk Arthur Schley was detached and ordered home and left the ship.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Merid. Cloudy and pleasant. Light variable airs first part, moderate breeze from E.S.E. latter part of watch. Sent Captains Clerk, Arthur Schley, home by English steamer, having been condemned by medical survey; also sent mail by same steamer. At 9.15 English steamer left the harbor. At 9.25 mustered at quarters. At 10 hove in to 25 fathoms port chain. At 11 an Italian man of war came in from S. and W. At 11 got underway. At 11.10 crossed topgallant yards and bent gear. At 11.30 made all plain sail. Draught forward 13 ft, 10 in. Amidships 14 ft, 11 in. Aft 16 feet. Steaming with four boilers. Average pressure 55 lbs. Revolutions 43. At 12 banked fires and uncoupled propeller.

(Signed) James K. Cogswell
Lieut.

From Merid. to 4 P.M. Clear and pleasant. Moderate breeze from E.S.E. Barometer steady. At 1.30 took departure. Ronca Point bearing (pc) W. by S. Anaga Point bearing (pc) N.E. 1/4 N. At 2.30 set spanker. At 3 changed course to S.W. 1/2 S. Fires banked in four boilers. Average pressure 25 lbs. Temp. of bunkers 96°. Ship under all plain sail except mainsail. At 4 changed course to S.W.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 6 P.M. Clear. Pleasant. Moderate. E.N.E[aster]ly breeze. Cir. Cum. clouds. Clewed down royals and move yard ropes. At 5.50 mustered at quarters. At 6 changed course to S.W. by W. Fires banked in four boilers. Average pressure 10 lbs.

(Signed) Samuel C. Lemly
Ensign.

From 6 to 8 P.M. Clear and pleasant. Moderate breeze from N. and E. At 6.40 took in main trysail. Barometer rising. Fires banked in four boilers.

(Signed) Charles B. T. Moore
Ensign.

From 8 to Midnight. Clear and pleasant. Gentle breeze from E.N.E. moon rose. At 10.45. Banked fires in four boilers. Average pressure 25 lbs. Barometer steady.

(Signed) James K. Cogswell
Lieut.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns, At Sea.

Hour	knots	Fathoms.	WINDS.			BAROMETER.			TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.	Air Wet Bulb.	Water at surface					
A.M																
1	4	4	SW by W	E by N	3-4		30.08	77	77	74	78	bc	Cum	7	S	
2	4	0	"	"	2		30.06	77	77	74	78	"	"	8	"	
3	4	0	"	"	2-3		30.05	77	77	74	78	"	"	4	"	
4	4	4	"	"	2-3		30.04	77	77	74	78	"	"	6	"	
5	5	4	"	NE by E	3		30.07	77	77	75	78	"	"	8	"	All plain sail
6	7	2	"	"	4		30.09	77	77	75	78	"	"	8	"	except spanker gaff
7	7	4	"	ENE	4		30.11	76	77	75	78	"	"	9	"	Topsail and F.T.M.S.S.
8	7	2	"	E by N	4		30.12	77	78	75	78	"	"	9	"	"
9	7	0	"	SE by E	4		30.13	78	80	76	78	"	"	8	"	"
10	7	0	"	"	4		30.15	78	81	77	77	"	"	8	"	"
11	6	0	"	"	3		30.14	78	82	78	77	"	"	8	"	"
Noon	5	2	"	E	3		30.13	78	81	78	77	"	"	6	"	"

Distance run by Log since preceding Noon	129 knots	0 fathoms.
Latitude by D. R. at Noon	26 °	22 ' 00 " N.
Longitude by D. R. at Noon	17 °	27 ' 30 " W.
Latitude by Observations at Noon ⊙	26 °	16 ' 00 " N.
Longitude by Chronometer from Forenoon Observations ⊙	17 °	43 ' 30 " W.
Current during the time	knots 5	fms. per hour, setting to the W. 22° S.
Variation of the Compass by Amplitude ⊙ observed at Sunrise	°	" "
Variation of the Compass by Azimuth ⊙ observed at 7.30 A.M.	19 °	10 " 00 " W.
Water expended during the preceding 24 hours		230 gallons.
Water		during the preceding 24 hours "
Water remaining on hand fit for me at Noon		2310 "
Coal consumed during the preceding 24 hours	tons	250 lbs.
Coal remaining on hand at Noon	69	" 2095 "

P.M																
1	5	0	SW by W	E	3		30.11	77	81	76	77	bc	Cum	7	S	All plain sail except
2	5	0	"	"	3		30.09	77	79	76	77	"	"	8	"	spanker and gaff topsail.
3	5	0	"	"	3		30.08	77	79	76	77	"	"	7	"	"
4	5	0	"	"	3		30.07	77	79	76	78	"	"	7	"	"
5	5	0	"	"	3		30.08	77	80	75	78	"	"	7	"	"
6	5	4	"	"	3		30.08	77	79	75	79	"	"	7	"	"
7	5	4	"	E by N	3		30.09	77	78	75	78	"	"	7	"	Same except F.T.M.S.S.
8	5	0	"	"	3		30.11	77	77	75	78	"	"	7	"	"
9	5	0	"	E	3		30.12	77	77	74	78	b	None	10	"	Same except M. sail
10	5	0	"	NE by E	3		30.12	77	77	74	78	"	"	10	"	"
11	5	2	"	"	3		30.11	77	77	74	77	bc	Cum	9	"	"
Mid.	5	4	"	NE	3		30.11	77	77	74	77	"	"	8	"	"

Longitude by Chronometer from Afternoon Observations ⊙	°	'	"
Longitude by Chronometer Observations *	°	'	"
Variation of the Compass by Amplitude	°	'	"
Variation of the Compass by	°	'	"

under the command of Commander Winfield Scott Schley
Sunday September 30th, 1877.

, U. S. Navy.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

Commences and until 4 A.M. Clear and pleasant. Light breeze from N. and E. Barometer falling.
At 12.30 hauled fires. At 1.30 set single reefed mainsail. At 2 took in spanker and gaff topsails.

(Signed) Clinton K. Curtis
Lieut.

From 4 to 8 A.M. Clear. Pleasant. Moderate breeze from N.E. by E. Cumulus clouds. At 5.15
hauled up weather clew of mainsail. At 7.20 set weather clew. At day light Peak of Teneriffe in
sight bearing (pc) N.E. by N. obscured soon after by clouds. At 8 set gaff topsail and spanker.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Merid. Clear and pleasant. Moderate breeze from S. E. by E. shifting to E. At 9.15 set
fore topmast staysail. At 9.30 Commanding Officer inspected ship and crew at quarters, and
immediately afterward read prayers. At 11.40 took in spanker and gaff topsail.

(Signed) Charles B. T. Moore
Ensign.

From Merid. to 4 P.M. Clear and pleasant. Light breeze from E. Moderate swell from E. Clouds
passing to N. and E.

(Signed) James K. Cogswell
Lieut.

From 4 to 6 P.M. Clear and pleasant. Light breeze from E. Barometer steady. At 6 mustered at
quarters.

(Signed) Clinton K. Curtis
Lieut.

From 6 to 8 P.M. Clear. Pleasant. Light E. by N. breeze. Cumulus clouds. At 6.30 hauled down
fore topmast staysail.

(Signed) Samuel C. Lemly
Ensign.

From 8 to Midnight. Clear, pleasant, cool. Moderate breeze from N. and E. At 9.40 took in
mainsail. Ship rolling easily.

(Signed) Charles B. T. Moore
Ensign.

Examined and found to be correct

(Signed) Asa Walker, Lieut.
Navigator.

LOG of the UNITED STATES STEAMER "ESSEX", 3rd Rate, 6 Guns,
[Editor's Note: This page was left blank in original logbook]

Hour	knots	Fathoms.	WINDS.		BAROMETER.		TEMPERATURE.			State of the Weather by symbols	Forms of Clouds, by symbols.	Prop. of Clear Sky, in 10ths.	State of the Sea.	Record of the sail the vessel is under at end of watch.				
			Courses steered.	Direction.	Force.	Leeway	Height in inches.	Ther. at'd.	Air Dry Bulb.						Air Wet Bulb.	Water at surface		
A,M																		
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
Noon																		
Distance run by Log since preceding Noon															knots	fathoms.		
Latitude by D. R. at Noon															°	' "		
Longitude by D. R. at Noon															°	' "		
Latitude by Observations at Noon ⊙															°	' "		
Longitude by Chronometer from Forenoon Observations ⊙															°	' "		
Current during the time															knots	fms. per hour, setting to the		
Variation of the Compass by Amplitude ⊙ observed at Sunrise															°	" "		
Variation of the Compass by Azimuth ⊙ observed at															°	" "		
Water expended during the preceding 24 hours																gallons.		
Water																during the preceding 24 hours	"	
Water remaining on hand fit for me at Noon																"		
Coal consumed during the preceding 24 hours															tons	lbs.		
Coal remaining on hand at Noon															"	"		
P,M																		
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
Mid.																		
Longitude by Chronometer from Afternoon Observations ⊙															°	' "		
Longitude by Chronometer Observations *															°	' "		
Variation of the Compass by Amplitude																observed at Sunset	°	' "
Variation of the Compass by																at	°	' "

under the command of

, U. S. Navy.
, 18.

RECORD OF THE MISCELLANEOUS EVENTS OF THE DAY.

U.S.S. Essex, 3rd Rate

At sea, Lat 24° 29 N, Long 19° 10' W

Oct 1st 1877

I certify this to be a true copy of the log of this ship from April 1st 1877 to Sept. 30th 1877 inclusive.

Asa Walker,
Lieut, Navigator.

Approved
W.S. Schley
Comd. Comdg.

Examined and found to be correct

Navigator.